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BROWN'S ✧ DIRECTORY

OF

AMERICAN ✧ GAS ✧ COMPANIES

Gas Statistics.

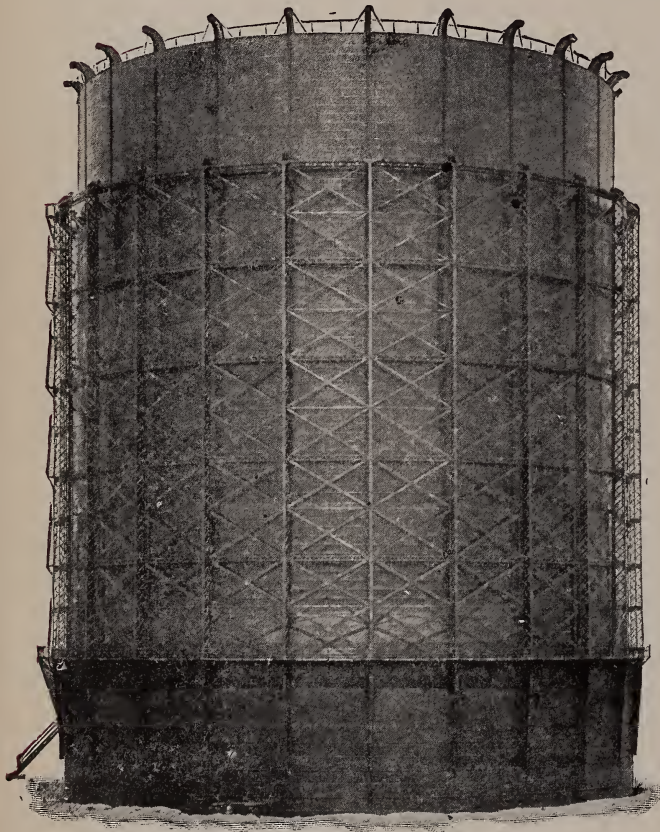
✧ 1904 ✧

U. S. Inspector of Gas & Medicine

R. D. WOOD & CO.

*Engineers, Iron Founders
and Machinists*

400 Chestnut St., PHILADELPHIA, PA.



Gas Holders

SINGLE AND MULTIPLE LIFTS
AND ANY CAPACITY

Purifiers

Condensers

Scrubbers

AND GENERAL
GAS WORKS

Machinery

CAST IRON PIPE SPECIAL CASTINGS
GAS VALVES and CENTER SEALS

Correspondence Solicited

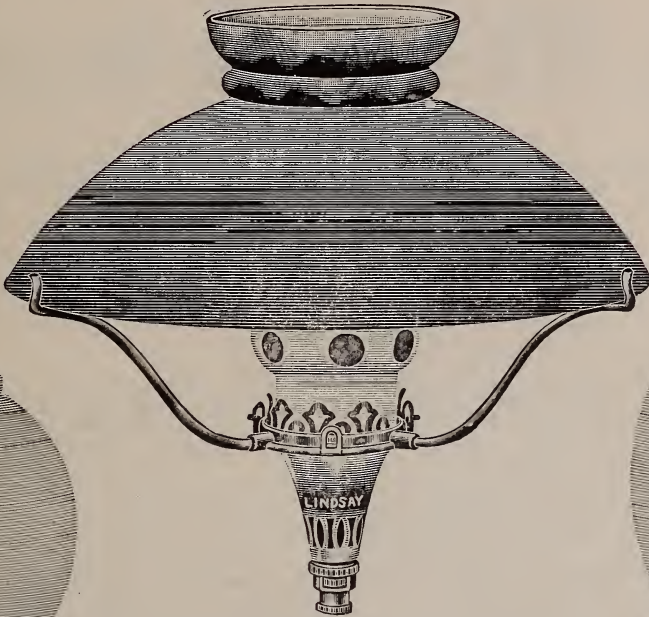
**Gas Power Plants and Hydraulic
Machinery**

LINDSAY No. 5 LIGHT

Burns 90 % Air and 10 % Gas

CAUTION

See that the
name
LINDSAY
is stamped on
burner
and mantle.



LINDSAY LIGHTS

Have
Best Burner,
Best
Glassware
and
Best Mantle



Complete with "Sch" opal globe, 10-inch Lindsay tripod and either 10-inch opal or green plated shade. Is the ideal home and office light, and, attached to a gas portable, will be found indispensable for sewing or reading.

300 Candle=Power

SEND FOR BOOKLET AND PRICES
IN QUANTITIES



Equipped as illustrated with "Q" opal globe. Makes a good appearance and is one of the most popular lamps now on the market. It must be seen to be appreciated.

As illustrated, with "Sch" opal globe, surpasses all recently invented lights in candle-power and durability and is particularly recommended for lighting stores, hotels, barber shops and other places where the light should be distributed over a large area. For a chandelier it is without an equal.

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CHICAGO

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President

F. J. DAVIS
Constructing Engineer

F. H. BROWN
Supt. and Treas.

Davis & Farnum M'f'g. Co.

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AND MACHINISTS**

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Cast Iron, Gas and Water Pipe and Specials,
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Gas Holders, Sugar-House Work, Iron
Roofs and Floors, and Every
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Complete Gas Plant

Steel Tanks for Gas Holders

STEEL TANKS FOR NAPHTHA STORAGE
STAND PIPES FOR WATER WORKS

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WALTHAM, MASS.

Established 1844

Incorporated 1894

v

SEMET-SOLVAY COMPANY

Syracuse, N. Y.

THE UNITED COKE AND GAS COMPANY

17 Battery Place

New York

Engineers and Contractors

For the Complete
Installation of

By-Product Coke Ovens

Arranged for the

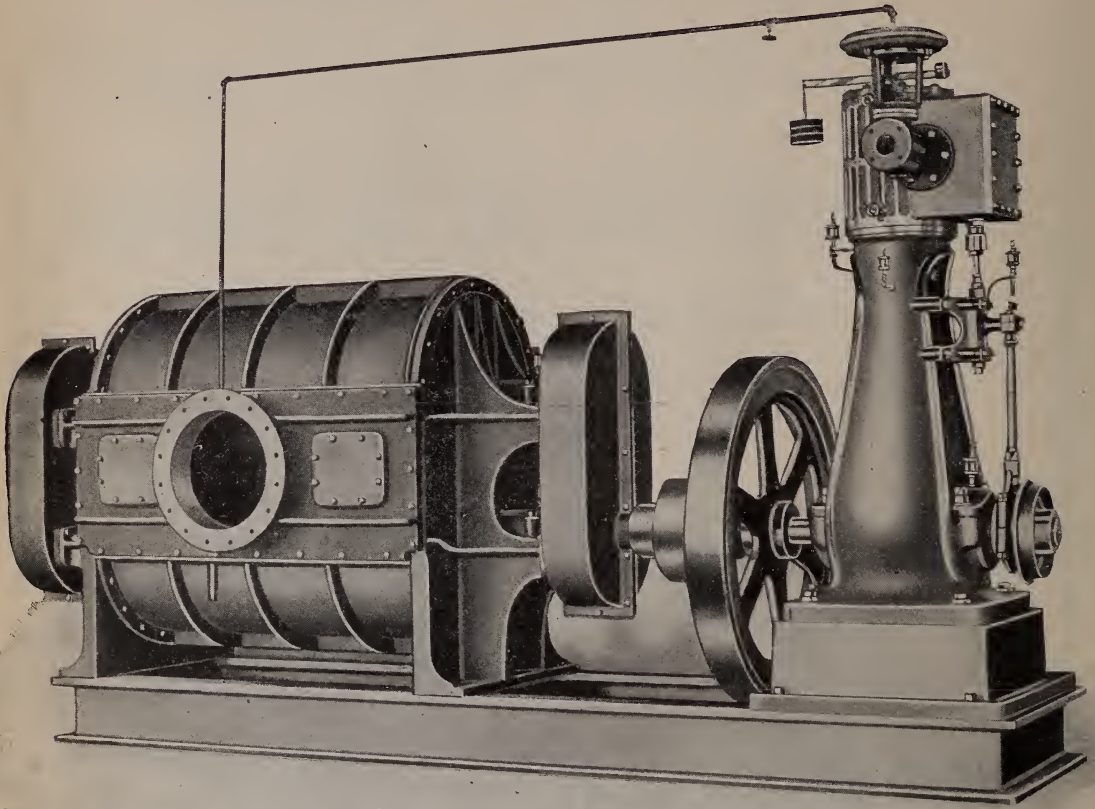
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COKE OVENS

Without the Saving of By-Products

The Connersville Blower Co.

CONNERSVILLE, INDIANA, U. S. A.



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HORACE G. COOKE, Sales Agent

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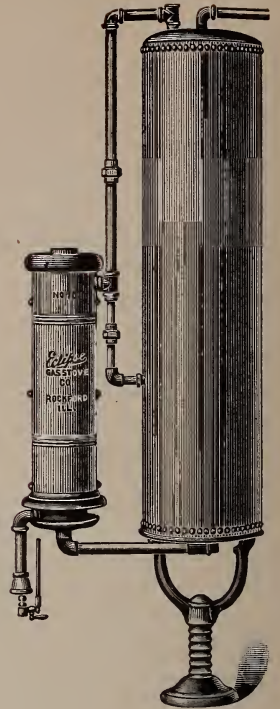
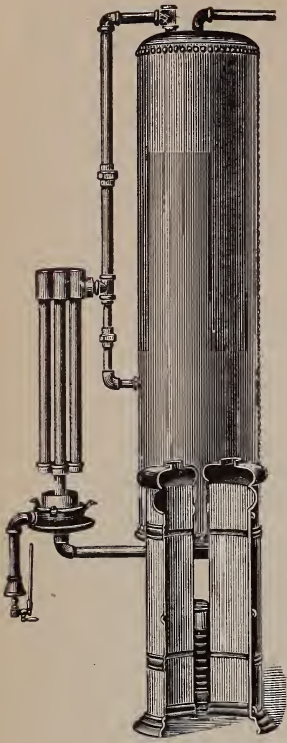
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On January 1, 1904, over
50,000 of the

Eclipse Round Water Heaters

were in use, and after six years, no stronger argument can be offered than the record of the last year's sale, which was larger than any preceding year.



The cuts illustrate the removable cast-iron casing which can be furnished in place of steel jackets. Principle of construction is right. Prices are right. The entire capacity of our plant is given to the manufacture of "Gas for Fuel" appliances. The only factory of its kind in the U. S.

Ranges equipped with adjustable gas orifice valves, either Lever Cocks or Needle Point.

A very complete line in either swing or drop door. All goods absolutely guaranteed to be satisfactory to your customer.

ECLIPSE GAS STOVE CO.
ROCKFORD, ILL.

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GENUINE AND POPULAR

DETROIT JEWEL

GAS RANGES

Are manufactured only in Detroit, Mich.,
by the

DETROIT STOVE WORKS

"Largest Stove Plant in the World,"
and the maker's name and this Jewel
Trade Mark are cast on every genuine
range

No other maker of Gas Appliances
has done so much to popularize the
use of gas for fuel as has this company.

We will gladly send to gas companies
samples of our free advertising helps
—our newest booklet, entitled "Cook-
ing with Gas," the best yet produced.
Fine New Posters, Signs, Leaflets, Car
Cards, Canvassers' Cards, Cuts, etc.

***"These helps have sold
thousands of ranges for
those who have used them"***

DETROIT STOVE WORKS

Detroit, Mich.

WESTERN BRANCH, CHICAGO, ILLS.

A WORD OF WARNING



Exclusive use of the name
"Jewel," as applied to stoves
and ranges, was guaranteed to
us by UNITED STATES Let-
ters Patent No. 4964, dated July
31st, 1877, and No. 6435, dated
August 6th, 1878, renewed as

No. 29707 and No. 29708, the name "Jewel"
having been used by us many years before
1877 and continually ever since.

For many years the Detroit Stove Works
has identified its wares by casting upon every
stove and range of its manufacture the well-
known "Jewel" trade-mark, which is
pictured above. It is a mark of quality and
economy, and a protection to stove buyers
as well as to our own good name.

Notwithstanding these facts, and without
our sanction, some stove manufacturers have
temporarily appropriated the name "Jewel,"
using it generally with prefixes or affixes,
thus attempting to trade upon our name and
world-wide reputation. Gas Companies
should take warning and not be deceived.
All genuine "Detroit Jewel" ranges have, in
addition to the above trade-mark, the
makers' name, "Detroit Stove Works," cast
upon them. Don't accept counterfeits or
substitutes, or allow yourself to be convinced
that something else is just as good as the
genuine Detroit Stove Works' "Jewel," and
you will profit by getting stoves that are
made right in every respect.

WE ARE LIGHTING

MINNEAPOLIS

ST. PAUL

PITTSBURG

LINCOLN

MEMPHIS

AKRON

MADISON, WIS.

MUSCATINE, IA.

WEST HAVEN

And Many Other Smaller Cities

IT'S time for the gas companies to wake up to the fact that there is a big revenue slipping away from them annually that rightly belongs to them. **WE CAN INCREASE THE EARNING CAPACITY OF ANY GAS PLANT IF WE ARE GIVEN THE OPPORTUNITY.** We will send a man to look over any gas lighting proposition at our own expense.

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NEW YORK, 1 Broadway



No. 8068

PATENTED
March 21, 1899
December 26, 1899

THE PHOENIX GLASS CO.,
MANUFACTURERS OF
ELECTRIC LIGHT GLOBES AND SHADES
FOR ALL
ELECTRIC LIGHT SYSTEMS,
ARC AND INCANDESCENT
ASK FOR
CATALOGUE No. 8.

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OF **GLASSWARE**
FOR **WELSCH**
AND OTHER STYLES OF
INCANDESCENT
GAS BURNERS

THE PHOENIX GLASS CO.
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ARC and INCANDESCENT
ELECTRIC GLOBES and
SHADES, Inner and Outer Globes, we
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FOR
INCANDESCENT
GAS LAMPS

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NO. 14



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6910

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206 Wabash Avenue
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R. J. TARVIN, Secy. and Treas.

INCORPORATED 1880

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Gas Works Builders

GASHOLDERS AND STEEL TANKS

And all Iron Work and Machinery Required in a Gas Plant
Also Smoke Stacks, Steel Roofs, Stand Pipes, etc.

THE ONLY AUTHORIZED MANUFACTURERS OF

“THE CHOLLAR SYSTEM OF PURIFICATION”

The Most Economical Purifiers on the Market
as to Space, Buildings and Operation.

We Also Manufacture
GAS VALVES, STREET SPECIALS, etc.

Plans, Specifications and Estimates Cheerfully Furnished on Request.

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The Westmoreland Coal Co.

CHARTERED 1854
CAPITAL \$3,000,000

*Mines Situated on the Pennsylvania Railroad
and the Youghioghenny River, in West-
moreland County, Pa.*

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SINCE the commencement of operations by this Company its well-known Coal has been largely used by the Gas Companies of New England and the Middle States, and its character is established as having no superior in gas-giving qualities, and in freedom from sulphur and other impurities.

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ROBT. A. McKEAN, Gen. Manager

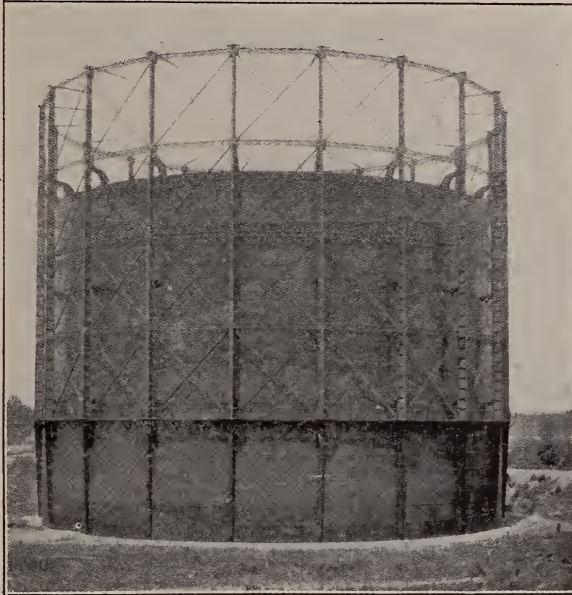
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Houses

Purifying
Houses

Boiler
Houses



Charging
Machines

AND

Complete
Gas
Plants



Riter-Conley Manufacturing Co.

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*Designed, Contracted for and Erected in all Parts
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Gas and Electric Light Securities**30 BROAD STREET****Telephone, 1198 Broad****NEW YORK**

ESTABLISHED 1883

PROGRESSIVE AGE

The circulation of this journal exceeds the combined circulation of all other papers devoted to the gas interests of this country :: :: :: ::

ASK any advertiser in PROGRESSIVE AGE if it brings results. Ask any gas man what paper published in the interest of gas is recognized by the industry as the representative journal—the authority and leader—of the industry.

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280 BROADWAY, NEW YORK

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GAS COAL

To Manufacturers of Coal Gas:

*Let us figure with you on our high
grade, low sulphur GAS COAL, mined
from the Pittsburg Seam.*

*We have every facility for taking care
of your business; can make shipments
by rail, lake or tidewater.*

**OUTPUT 5,000,000 TONS
ANNUALLY**

A large and competent Corps of Inspectors insures CLEAN coal

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Majestic Building, Detroit, Mich.**

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CINCINNATI, CLEVELAND, DETROIT..**

NORTHWESTERN FUEL COMPANY, Chicago and Northwestern Agents

Mr. Gasman

For there's no bother, no worry—no disappointments. The public gets a steady, brilliant light—and your gas gets the credit.

The Welsbach Burners and the Welsbach Mantles put that gas of yours in its best light—dress it up. It makes your public satisfied with your gas—makes them glad to burn it—to burn lots of it.

Buy
Talk
and
Sell
Welsbach
Brands



Make
Hold
and
Keep
Satisfied
Customers

The astute dealer seeks, not only to retain this year's customers, but to attract new trade next year. You can do this by selling the Welsbach brands. The imitation stuff is bad for the customer—and that's bad for you. The genuine Welsbachs—Burners and Mantles—make satisfied customers—keep customers—make new ones.

Mr. Dealer

WELSBACH CO.

Gloucester, N. J.

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Chicago, Ill.

U. S. Inspector of Gas & Meters D. C.

ESTABLISHED 1887.

BROWN'S
DIRECTORY

.. OF ..

American Gas Companies.

U. S. Inspector of Gas & Meters D. C.

GAS STATISTICS.

PRICE, - - - - - \$5.00

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E. C. BROWN.

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280 BROADWAY,
NEW YORK.

1904.

NEW YORK
95 Liberty Street

PHILADELPHIA
Broad and Arch Streets

CHICAGO
Foot of Orleans Street

BOSTON
814-15 Beacon Bldg.

ST. LOUIS
712 Roe Building

SAN FRANCISCO
712 Polk Street

Welsbach Street Lighting Company of America

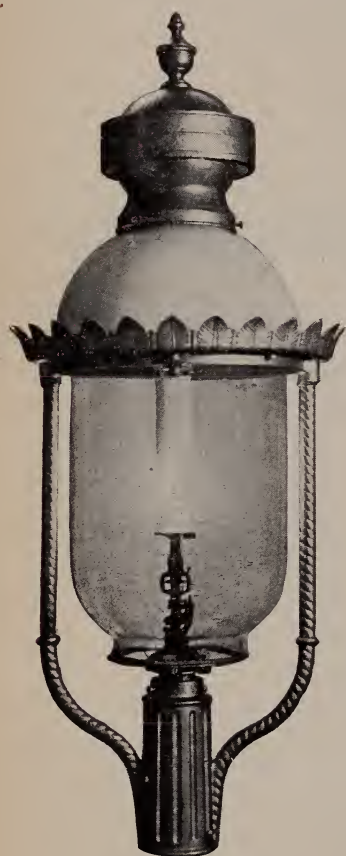
CONTROLS AND OPERATES
THE

Welsbach System of Street Lighting

Which includes its specially
DESIGNED and PATENTED
BURNER and LAMP for
STREET and PARK LIGHT-
ING exclusively.

Uniformly SUCCESSFUL through-
out the United States and Europe.

By means of the Welsbach System
of street lighting the superiority
of GAS FOR STREET LIGHT-
ING has been fully demonstrated.



No. 36



No. 38

POINTS OF MERIT:

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Economical
Attractive
Successful
Up-to-Date

It Lights the Street

Where there are no gas mains we can furnish an equally good light by
our **SELF-GENERATING NAPHTHA WELSBACK BURNER**, and thereby
supply a uniform light in all localities.

Correspondence Solicited from Gas Companies and
Others Interested in Municipal and
Outside Lighting.

BROWN'S DIRECTORY

.. OF ..

American Gas Companies

GAS STATISTICS.

ALABAMA.

Anniston Electric and Gas Co., Anniston.

Capital stock, \$250,000.
Bonds, \$239,000; due 1929; interest 5 p. c.
President, E. R. Coffin.
Secretary, Col. H. M. Francis.
Treasurer, Col. H. M. Francis.
Gen'l manager and pur. agent, H. W. Sexton.
Superintendent, A. A. Jett.
Process manufacture, Coal.
Pop. dist. supplied, 15,000. No. meters, 600.
Miles of mains, approximate, 12.
Price gas, 1903: Light, gross \$2; net \$1.80.
Fuel, gross \$2; net \$1.25.
Annual output, approx., 12,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 45 p. c.
Lowest pressure for gas stoves, 1.2 in.
Gas stoves in use, 150.
Supplies Anniston.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Gen. Elec., 100 (1,200 c. p.) arcs capacity.
Incand. system, Gen. Elec., Edison, 9,500 lamps capacity.
Power generators, 475 kw. capacity.
No. public arcs, 88; lighted all dark hours.
Price arc, Public, per year, \$75.
Price arc, Com'l, per kw., net 10c. to 20c.
Power used, Steam.
Cost boiler fuel per ton, \$2.30.
(Also operate street railway.)

Birmingham Railway, Light & Power Co., Birmingham.

Capital stock, pref., \$2,500,000; com., \$3,500,000.
Semi-annual div. paid, 3 p. c. and 1.5 p. c.
Bonds outstanding, \$1,195,000, due 1924; \$4,750,000, due 1951; interest, 5 p. c.
President, Robert Jemison.
Secretary, J. P. Ross.
Treasurer, C. O. Simpson.

Purchasing agent, Marion Snead.
General manager, J. A. Emery.
Superintendent, T. Byron.
Process manufacture, Coal.
Pop. dist. supplied, 50,000. No. meters, 3,000.
Miles of mains, approximate, 41.11.
Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
Annual output, approx., 106,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 33 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 2,500.

ELECTRICAL DEPARTMENT.

Arc system, Brush. 600 (2,000 c. p.) and 375 (1,200 c. p.) arcs capacity.
Incand. system, Edison, 75,000 lamps capac.
Power generators, 10,000 kw.
No. public arcs, 296 (2,000 c. p.); lighted all night and every night.
Price arc, Public, per year, \$80.
Price arc, Commercial, per mo., all night, (1,200 c. p.) \$6.56.
Price incand., Com'l, per kw. 16c.; disc. 10 p. c.
Power used, Steam.
Cost of coal per ton, \$1.55.

Eufaula Gas, Electric Light and Power Co., Eufaula.

Capital stock, \$50,000.
President, J. W. Reeves.
Sec'y and treas., W. E. Reeves.
Purchasing agent, J. W. Reeves.
Superintendent, J. C. West.
Process manufacture, Coal.
Pop. district supplied, 7,000. No. meters, 250.
Miles of mains, approximate, 8.
Price gas, 1903: Light, gross \$2.50; net \$2.
Fuel, gross and net \$1.50.
No. public lamps, 16. Price per year, \$25.
Consumption per burner per hour, 6 c. f.
Price includes repairs, care, lighting and extinguishing.

Welsbach Street Lighting Co. of America

No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 6 p. c.
 Lowest pressure for gas stoves 2.2 in.
 Gas stoves in use, 20.
 Supplies Eufaula.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, G. E., 50 (2,000 c. p.) arcs capac.
 Incand. Alt., 1,000 lamps capac.
 Power generators, 50 kw.
 No. public arcs, 37; lighting hours, 4,000.
 Price arc, Public, per year, \$60.
 Price arc, Com'l, per month, midnight, \$5;
 all night, \$10.
 Price incand., Com'l, per month, 16 c. p.,
 business, 75c.; residences, 50c. Per kw.
 gross, 20c., disc. 10 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$3.10.

Florence Gas Light and Fuel Co., Florence.

Capital stock, \$50,000.
 Bonds, \$35,000; due 1925; interest, 6 p. c.
 President, J. E. Stacey, Cincinnati, O.
 Secretary, E. A. Downey, St. Louis, Mo.
 Treasurer, E. A. Downey.
 Purchasing agent, J. E. Stacey.
 Superintendent, Wm. J. Salter.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,800. No. meters, 375.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, gross \$2.25; net \$2.
 Fuel, gross \$2; net \$1.50.
 No. public Welsbach lamps, 60.
 Consumption per burner per hour, 3 c. f.
 Contract includes repairs, care, lighting and
 extinguishing.
 No. hours lamp is lighted per year, 2,100.
 Annual output, approx., 7,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 25.

Huntsville Gas Co., Huntsville.

Capital stock, \$100,000.
 President, W. R. Rison.
 Sec'y and treas., C. F. Sugg.
 Superintendent, J. H. Cardall.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 8,000. No. meters, 400.
 Miles of mains, approximate, 11.
 Price gas, 1903: Light, gross \$2; net \$1.50.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 1.5 in.

Electric Lighting Company of Mobile, Mobile.

(Consolidation of Mobile Gas Light and Coke
 Co., and Electric Lighting Co. of Mobile.)
 Capital stock, \$300,000.
 Bonds, auth., \$170,000; due 1933; int., 5 p. c.
 President, S. S. Rubira.
 Secretary, H. W. Shields.

Treasurer, H. W. Shields.
 Superintendent, S. C. Shaffner.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 40,000. No. meters, 1,800.
 Miles of mains, approximate, 50.
 Price gas, 1904: Light, gross \$1.80; net \$1.62.
 Fuel, gross \$1.40; net \$1.26.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.6 in.
 Gas stoves in use, 500.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Brush, 300 (2,000 c. p.) arcs capac.
 Incand. system, Gen. Elec., 25,000 lamps capac.
 No. public arcs, 275; hours lighted, 4,000.
 Price arc, Public, per year, \$75.
 Price per kw-h., 8c.; disc. 25 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$2.60.

Montgomery Light and Water Power Co., Mont- gomery.

Capital stock, \$2,000,000.
 Bonds, \$1,775,000; due 1943; interest, 5 p. c.
 President, W. F. Vandiver.
 Vice-president, Emerson McMillin.
 Sec'y and treas., B. S. Maultsby.
 Purchasing agent, R. J. Chambers.
 Superintendent, R. J. Chambers.
 Process manufacture, Coal.
 Pop. dist. supplied, 27,000. No. meters, 1,700.
 Miles of mains, approximate, 17.
 Price gas, 1903: Light, net \$1.62. Fuel
 net \$1.08.
 Annual output, 32,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 600.
 Supplies Montgomery.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Gen. Elec., 62 (2,000 c. p.) and 400
 (1,200 c. p.) arcs capacity.
 Incand. system, Gen. Elec., 8,000 lamps capac.
 No. public arcs, 360 (1,200 c. p.); lighted all
 and every night.
 No. public incandescents, 300.
 Price arc, Public, per year, (1,200 c. p.) \$51.
 Price incand., Public, per year, 16 c. p., \$9.
 Price arc, Com'l, per month, (1,200 c. p.) \$7.50.
 Price incand., Com'l, per month, 16 c. p., 75c.
 to 90c.; 32 c. p. \$1.50 and \$1.80; per kw-h.,
 15c.; disc. 5 p. c. to 25 p. c.
 Power used, Water.
 Cost boiler coal per ton, \$2.40.

Decatur Light, Power and Fuel Co., New Decatur.

Capital stock, \$50,000.
 Bonds, \$35,000; due 1918; interest, 5 p. c.
 President, James I. Fisher.
 Secretary, H. M. Francis.
 Treasurer, John J. Riordan.
 Supt. and gen. mgr., Edward F. Taylor.

THE WELSBACH STREET LIGHTING COMPANY OF AMERICA will furnish complete plants for the lighting of the streets of cities, the gas being furnished by the gas company. See advertisement, page xx.

Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 212.
 Miles of mains, approximate, 14.
 Price gas, 1903: Light, gross \$2; net \$1.75.
 Fuel, \$2 to \$1.50.
 Annual output, approx., 3,600,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 140.
 Cities supplied, Decatur and New Decatur.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 95 (1,200 c. p.) arcs capac.
 Incand. system, T. H., 2,000 lamps capac.
 No. public arcs, (1,200 c. p.) 31; hours lighted, 4,745.
 Price arc, Public, per year, \$88.
 Price arc, Commercial, per month, \$9.
 Price incand., Com'l, per mo., 16 c. p., 9 P. M., 75c.; 12 P. M., \$1.25; all night, \$1.75.
 Price per kw., gross 16c.; disc. 7 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.25.

Selma Lighting Co., Selma.

Capital stock, \$100,000.
 Bonds, \$200,000; interest, 5 p. c.
 President, W. D. Pender.
 Secretary, H. Bayard Hodge.
 Treasurer, Geo. M. Bunting.
 Gen. supt. and pur. agt., Jas. H. Dawes.
 Superintendent, G. H. Rettew.
 Process manufacture, Coal.
 Pop. dist. supplied, 16,000. No. meters, 600.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$2; net \$1.50.
 Fuel, gross \$1.75; net \$1.25.

Annual output, approx., 15,000,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 140.
 Supplies Selma.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc syst., Gen. Elec., 150 (2,000 c. p.) arcs capac.
 Incand. system, Gen. Elec., 5,000 lamps capac.
 Power generators, 150 kw. capacity.
 No. public arcs, 94; lighted all night.
 Price arc, Public, per year, \$90.
 Price arc, Commercial, per month, \$9.
 Price incand., Com'l, per mo., 16 c. p., 80c.;
 per kw., gross 20c.; disc. 20 to 50 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.25.

Talladega Light and Water Commission, Talladega.

(Owned by city.)
 Capital stock, \$50,000.
 Bonds, \$50,000; due 1931; interest, 7 p. c.
 Commission:
 Chairman, Dr. B. B. Simms.
 Treasurer, W. H. Boynton.
 Dr. D. S. Lightcop.
 Gen. mgr. and pur. agt., T. L. Bellingrath.
 Process manufacture, Coal.
 Pop. dist. supplied, 3,000. No. meters, 200.
 Miles of mains, approximate, 3.
 Price gas, 1903: Light, gross and net \$2.
 Fuel, gross and net \$1.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 1.5 to 2 in.
 Gas stoves in use, 35.

ARIZONA.

Phoenix Light and Fuel Co., Phoenix.

Capital stock, \$500,000.
 Bonds outstanding, \$300,000; interest, 5 p. c.
 President, Thos. W. Pemberton.
 Supt. elect. dept., D. W. Beldon.
 Process manufacture, Lowe (crude oil).
 Pop. dist. supplied, 12,000. No. meters, 350.
 Price gas, 1903: Light, gross \$2.50; net \$2.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel, 35 p. c.
 Lowest pressure for gas stoves, 1.5 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Gen. Elec., T. H., Brush, 50 (2,000 c. p.) and 75 (1,200 c. p.) arcs capacity.
 Incand. monocyte, 10,000 lamps capacity.
 No. public arcs, 76; lighted by moon scale.
 Price arc, Public, per year, \$96.
 Price incandescent, Public, per kw-h., 20c.
 Price arc, Com'l, per mo., \$10 to \$15.
 Price incand., Com'l, per kw-h., 20c.

Electric meters, 600.
 Power used, Steam and Water.
 Cost boiler fuel per ton, \$6.

Tucson Gas, Electric Light and Power Co., Tucson.

Capital stock, \$300,000.
 President, W. S. Iliff.
 Secretary, C. K. Durbin.
 Treasurer, O. S. Moore.
 Manager, Frank E. Russell.
 Process manf., Lowe (crude oil).
 Pop. district supplied, 10,000.
 Miles of mains, approximate, 7.

ELECTRICAL DEPARTMENT.

Arc system, General Electric.
 Incand. system, Gen. Elec., 6,000 lamps capac.
 No. public arcs, 50 (1,200 c. p.); hours lighted 2,300.
 Price arc, Public, per year, \$80.
 Price incand., Commercial, per kw-h., 20c.
 Power used, Steam.
 Cost boiler fuel per ton, \$8.

THE **Welsbach** SYSTEM OF STREET LIGHTING is employed in the following cities: New York City, Philadelphia, Pa., Freehold, N.J., East Orange, N.J., New Haven, Conn., Brookline, Mass., Cambridge, Mass., New Rochelle, N.Y., Omaha, Neb., Springfield, O., Boston, Mass., New Bedford, Mass., Bridgeport, Conn., Dayton, O., Pensacola, Fla., St. Louis, Mo., Providence, R.I., San Francisco, Cal., Yonkers, N.Y., Milwaukee, Wis., Portland, Me., and various other cities. See advertisement, page xx.

Fort Smith Light and Traction Co., Fort Smith.

(Purchased Ft. Smith and Van Buren Light and Transit Co. and Ft. Smith Traction Light and Power Co.)

Capital stock, \$300,000.
Bonds, \$200,000; due 1933; interest, 5 p. c.
President, W. C. Lemert.
Secretary, R. G. Hunt.
Treasurer, R. G. Hunt.
Purchasing agent, R. G. Hunt.
Superintendent, E. Keller.
Process manufacture, Coal.
Pop. dist. supplied, 12,500. No. meters, 990.
Miles of mains, approximate, 15.
Price gas, 1903: Gross and net, Light, \$2.
Fuel, \$1.50.
Annual output, approx., 13,000,000 c. f.
Candle-power, 16.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 450.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Brush, G. E., 140 (2,000 c. p.) arcs capacity.

Incand. system, West's, 10,000 lamps capac.
Power generators, 450 kw. capac.
No. public arcs, 112; hours lighted, 3,680.
Price arc public, per year, \$80.
Price arc and incand., Com'l, per kw-h., 4c. to 20c.
Power used, Steam.
Cost boiler fuel per ton, \$1.40

Helena Gas Co., Helena.

Capital stock, \$100,000.
President, John J. Hornor.
Sec'y and treas., E. C. Hornor.
Purchasing agent, J. L. Hornor.
Superintendent, J. L. Hornor.
Process manufacture, Coal.
Pop. dist. supplied, 7,000. No. meters, 460.
Price gas, 1904: Light, gross \$2.50; net \$2.
Fuel, \$1.25.
Annual output, approx., 7,500,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 1.6 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc and incand. system, Gen'l Electric, 3,600 lamps capacity.
No. public arcs, 51; lighted by moon scale.
Price arc, Public, per year, \$120.
Price arc and incand., Com'l, per kw., 20c.; 10 to 25 p. c. disc., meter, 18c.
Power used, Steam.
Cost boiler fuel per ton, \$2.40.

Hot Springs Water Co., Hot Springs.

(Absorbed the Garland Gas Light Co.)
Process manufacture, Springer.
Pop. dist supplied, 12,000.
Price gas, 1903: Light, gross and net \$3.
Fuel, \$2.
No. public lamps, 36. Price per year, \$27.
Consumption per burner per hour, 6 c. f.

Price includes repairs, care, lighting and extinguishing.
Annual output, approx., 12,000,000 c. f.
Candle-power, 24.
Lowest pressure for gas stoves, 1.4 in.

Pulaski Gas Light Co., Little Rock.

Capital stock, \$116,350.
Bonds, \$450,000; due 1921; interest, 5 p. c.
President, Beman G. Dawes.
Secretary, R. I. Speer.
Treasurer, R. I. Speer.
Purchasing agent, R. I. Speer.
Superintendent, Griffin Roberts.
Process manufacture, Coal and Springer.
Pop. dist. supplied, 45,000. No. meters, 3,110.
Miles of mains, approximate, 33.
Price gas, 1903: Light, gross \$1.90; net \$1.71.
Fuel, gross \$1.65; net \$1.49.
Annual output, approx., 63,250,000 c. f.
Candle-power, 17.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 1,375.
Cities supplied, Little Rock and North Little Rock.

Pine Bluff Light and Water Co., Pine Bluff.

Capital stock, \$250,000.
Bonds, \$250,000; due 1917; interest, 5 p. c.
President, F. G. Bridges.
Manager, L. I. Pollitt.
Purchasing agent, L. I. Pollitt.
Cashier, W. A. Lee.
Process manufacture, Coal.
Pop. dist. supplied, 10,000. No. meters, 475.
Miles of mains, approximate, 10.
Price gas, 1903: Light, gross \$2.50; net \$2.
Fuel, gross \$2.50; net \$1.50.
Annual output, approx., 12,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 300.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, T. H., 75 (2,000 c. p.) arcs capacity.
Incand. syst., G. E. West's, 6,000 lamps capac.
Power generators, 250 kw. capac.
Price public lighting, per year, arc, \$9; incand., \$1.15.
Price arc and incand., Com'l, per kw., 8c. to 12c.
Power used, Steam.
Cost boiler fuel per ton, \$2.50.

Texarkana Gas and Electric Light Co., Texarkana.

Capital stock, \$125,000.
Bonds, \$55,000; due 1918; interest, 6 p. c.
President, C. A. Madill.
Vice-president, J. R. Cullinane.
Secretary, W. H. Arnold.
Treasurer, Leo A. Rodgers.
Purchasing agent, C. A. Madill.
Manager, C. A. Madill.
Process manufacture, Coal.
Pop. dist. supplied, 15,000. No. meters 500.
Miles of mains, approx., 11.
Price gas, 1903: Light, \$1.80. Fuel, \$1.50.
Annual output, approx., 12,000,000 c. f.

THE IMPROVED **Welsbach** STREET LIGHTING FIXTURES furnish the perfection of street lighting outfits. See advertisement, page xx.

Candle-power, 18.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 175.
Supplies Texarkana.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Gen. Elec., 75 (2,000 c. p.) arcs capacity.

Incand. system, Gen. Elec., 7,500 lamps capac.
No. public arcs, 50; lighted all night.
Price arc, Public, per year, \$96.
Price arc, Commercial, per month, \$10.
Price incand., Commercial, per month, 16 c. p., all night, \$1.25; to 12 P. M., 75c. per kw-h., 10c. to 14c.
Power used, Steam.
Cost boiler fuel per ton, \$2.60 and \$3.50.

CALIFORNIA.

Power, Transit and Light Co., Bakersfield.

Capital stock, auth., \$2,500,000.
President, C. N. Beal.
Secretary, J. L. Goodwin.
Treasurer, Fred. L. Elsey.
Process manufacture, Lowe.
Pop. dist. supplied, 7,400. No. meters, 400.
Price gas, 1902: Light, gross \$3.50; net \$3.15.
Fuel, \$2.
Annual output, approx., 5,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2.2 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Gen. Elec., 75 (2,000 c. p.) arcs capacity.
Incand. system, Gen. Elec., 10,000 lamps capacity.
No. public arcs, 45; hours lighted, 3,000.
Price arc, Public, per year, \$96.
Price incand., Commercial, per kw-h., 12c.
Power used, Water.

Chico Gas and Electric Co., Chico.

President, John Martin.
Secretary, C. W. Conlisk.
Treasurer, R. M. Hotaling.
Purchasing agent, Leon de Sabla.
General manager, John A. Britton.
Superintendent, A. J. Stephens.
Process manf., Lowe (crude oil).
Pop. dist. supplied, 4,000. No. meters, 345.
Miles of mains, approximate, 6.75.
Price gas, 1903: Light, gross, \$2.50; net, \$2.
Fuel, gross, \$2; net, \$1.50.
Annual output, approx., 5,240,000 c. f.
Candle-power, 24.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 151.
Supplies Chico.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Current furnished by Bay Counties Power Co.
Power generators, 400 kw. capacity.
No. public arcs, 1; price per year, \$96.
No. public incands., 635.
Price incand. Public, per year, \$7.20.
Price arc, Commercial, per month, \$8.
Incand. Com'l, per mo., 60c.

Price per kw., gross 12c.; discount 2c.
Power used, Water.

Colton Gas Company, Colton.

(New company.)
Capital stock, \$100,000.
President, George B. Ellis.
Secretary, H. W. Allen.
Treasurer, First National Bank of Colton.
Purchasing agent, S. L. Steele.
Superintendent, S. L. Steele.
Process manufacture, Lowe (crude oil).
Pop. dist. supplied, 2,500. No. meters, 100.
Price gas, gross \$2; net \$1.80.
Candle-power, 19.
Gas stoves in use, 90.
Supplies Colton.

Colusa Gas and Electric Co., Colusa.

President, John Martin.
Secretary and treasurer, C. W. Conlisk.
Purchasing agent, L. J. de Sabla.
General manager, John A. Britton.
Manager John D. Kuster.
Process manf., Lowe (crude oil).
Pop. dist. supplied, 2,500. No. meters, 200.
Miles of mains, approximate, 4.
Price gas, 1903: Light, gross \$3; net \$2.50.
Fuel, gross \$2; net \$1.50.
Annual output, approx., 2,700,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 100.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Power furnished by Valley County Power Co.
No. public arcs, 20; hours lighted, 3,600.
Price arc, Public, per year, \$96.
Price incand., Com'l, per month, stores, 16 c. p., 60c.; residences, flat rate, per mo., 25c.; per kw., gross, 10c.; motors per kw., 1.5 to 3c.

Corona Gas and Electric Light Co., Corona.

(Commenced operations January, 1904.)
Capital stock, \$50,000.
President, M. W. Findley.
Secretary, A. F. Le Gaye.
Treasurer, M. Terpenning.
Purchasing agent, A. F. Le Gaye.
Superintendent, A. F. Le Gaye.
Process manufacture, Beals (crude oil.)

"The fact that the number of lamps in Worcester has been increased and the contract recommended by a unanimous vote of the City Council, is perhaps a sufficient answer to the inquiry if the service is satisfactory to the citizens of Worcester."

See advertisement, page xx.

HENRY A. KNIGHT, Superintendent of Street Lights.

Miles of mains, approximate, 8.
 Price gas, 1904: Light and Fuel, gross \$1.75;
 net \$1.57.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Incand. system; capac. 1,500 lamps.
 Power generators, 75 kw. capacity.
 Price public arc, per year, \$100.
 Price arc and incand. Com'l, per kw. gross
 15c. to 12c.; disc. sliding scale.

Eureka Lighting Co., Eureka.

Capital stock, \$250,000.
 President, C. O. G. Miller.
 Secretary, H. H. Miller, San Francisco.
 Treasurer, H. H. Miller.
 Pur. agts., C. O. G. Miller and T. D. Petch.
 Superintendent, T. D. Petch.
 Process manufacture, Improved Oil.
 Price gas, 1903: \$2.50.
 Pop. dist. supplied, 10,000. No. meters, 250.
 Miles of mains, approximate, 8.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 3 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Brush, 260 (2,000 c. p.) arcs capac.
 Incand. system, Gen. Elec., 5,000 lamps capac.
 Power generators, 900 kw. capacity.
 No. public arcs, 72; hours lighted, 4,000.
 Price arc, Public, per year, \$96.
 Price arc, Com'l, per month, net \$6.
 Price incand., Com'l, per mo., 16 c. p., resi-
 dences 25c.; stores 60c.
 Power used, Steam.
 Boiler fuel, free sawdust in exchange for
 free steam.

Fresno Gas and Electric Light Co., Fresno.

Capital stock, \$500,000.
 President, E. J. de Sabla.
 Secretary, C. W. Conlisk.
 Treasurer, R. M. Hotaling.
 Purchasing agent, L. J. de Sabla.
 Superintendent, Geo. S. Colquhoun.
 Process manufacture, Lowe (crude oil).
 Pop. dist. supplied, 17,000. No. meters, 1,725.
 Miles of mains, approximate, 25.
 Price gas, 1903: Gross \$2; net \$1.50.
 Annual output, approx., 40,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,200.

Gilroy Gas Co., Gilroy.

(Plant now owned by city.)
 Process manufacture, Coal.
 Pop. dist. supplied, 1,800. No. meters, 150.
 Miles of mains, approximate, 3.5.
 Price gas, 1902: Light, gross and net \$3. Fuel,
 gross and net \$2.50.
 No. public Welsbach lamps, 34.
 Consumption per burner per hour, 3 c. f.
 No. hours lamp is lighted per year, 1,200.

Annual output, approx., 2,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.

Nevada County Gas and Electric Co., Grass Valley.

President, John Martin.
 Secretary, J. C. Love.
 Chief engineer, E. C. Jones.
 Purchasing agent, S. F. Alden.
 Superintendent, J. E. Poingdestre.
 Process manf., Lowe (crude oil).
 Pop. dist. supplied, 9,500. No. meters, 294.
 Miles of mains, approximate, 16.5.
 Price gas, 1903: Light, gross \$2.50, net \$2.
 Fuel, gross \$2; net \$1.50.
 Annual output, approx., 7,500,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 70 p. c.
 Lowest pressure for gas stoves, 4 in.
 Gas stoves in use, about 105.
 Cities supplied: Nevada City, Grass Valley.

ELECTRICAL DEPARTMENT

(Operated under same name as gas company.)

Current furnished by Bay Counties Power Co
 No. public arcs, 39; price, per year, \$84.
 Hours lighted, public arcs and incand., 3,650.
 No. public incandescents, 20.
 Price incand., Public, per year, (50 c. p.), \$24;
 (24 c. p.), \$12.
 Price arc, Commercial, per month, \$8.
 Price incand., Com., per kw., 15c.; net 12c.
 Power used, Water.

Hanford Gas and Power Co., Hanford.

Capital stock, \$100,000.
 Bonds, \$25,000; due, 1905 to 1909; int., 6 p. c.
 Secretary and treas., E. E. Burt.
 Superintendent, E. E. Burt.
 Process manufacture, Oil.
 Pop. dist. supplied, 5,000. No. meters, 320.
 Miles of mains, approximate, 18.
 Price gas 1903: gross 2; net \$1.85.
 Annual output, approximate, 800,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 90 p. c.
 Lowest pressure for gas stoves, 2.4 in.
 Gas stoves in use, 280.
 Supplies Hanford.

Hollister Light and Power Co., Hollister.

Capital stock, \$25,000.
 President, Wm. Palmtag.
 Vice-president, T. S. Hawkins.
 Secretary, Rody Shaw.
 Treasurer, Farmers and Merchants Bank.
 Purchasing agent, Rody Shaw.
 Superintendent, W. P. Ellis.
 Process manufacture, Lowe (crude oil).
 Pop. dist. supplied, 700. No. meters, 175.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light and Fuel, \$2.50.
 No. public lamps, 12.
 Consumption per burner per hour, 5 c. f.
 Price does not include repairs, care, light-
 ing and extinguishing.
 Lighted from midnight to daylight.
 Annual output, approx., 2,400,000 c. f.

THE **Welsbach** STREET LIGHT is a pure white light, unaffected by change of temperature, winds, or other natural disturbances. See advertisement, page XX.

Candle-power, 22.
Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 10.
Supplies Hollister.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Wood, 25 (1,200 c. p.) arcs capac.
Incand. system, Edison, 1,000 lamps capac.
No. public arcs, 21; lighted by moon scale.
Price arc, Public, per year, \$114.
Price arc, Commercial, per month, \$8.
Price incand., Commercial, per kw-h., 12.5c.
Power used, Steam.
Cost boiler fuel, oil, per barrel, \$1.75.

Jackson Gas Light Co., Jackson.

Capital stock, \$50,000.
Owner, B. E. Letang.
Process manufacture, Coal.
Pop. dist. supplied, 3,200. No. meters, 160.
Price gas, 1903: Light and Fuel, \$2.50.
Annual output, approx., 2,600,000 c. f.
Candle-power, 16.
Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 15.
Supplies Jackson.

Livermore Water and Power Co., Livermore.

(Gas plant, in a measure, dismantled. Not likely that gas will again be supplied.)

Long Beach Gas Co., Long Beach.

Capital stock, \$100,000.
President, C. W. Dobbins.
Secretary, F. D. Lowe.
Treasurer, F. D. Lowe.
Purchasing agent, Thaddeus Lowe.
General manager, Thaddeus Lowe.
Process manf., new Lowe (crude oil only).
Pop. dist. supplied, 5,000. No. meters, 900.
Miles of mains, approx., 15.
Price gas, 1903: Light and Fuel, gross \$2; net \$1.50.
Annual output, approx., 20,000,000 c. f.
Candle-power, 21.
Lowest pressure for gas stoves, 2.5 in.
Supplies Long Beach.

The Edison Electric Co., Long Beach.

(Successor to United Elec. Gas and Power Co.)
President, John B. Miller.
Secretary, Wm. R. Stoats.
Treasurer, John B. Miller.
Purchasing agent, H. S. Benedict.
Superintendent, C. A. Copeland.
Process manufacture, Lowe.
Pop. dist. supplied, 6,000. No. meters, 1,480.
Miles of mains, approx., 8.
Price gas, 1903: Light and Fuel, gross and net, \$1.50.
Annual output, approx., 16,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 80 p. c.
Lowest pressure for gas stoves, 2.5 in.

ELECTRICAL DEPARTMENT.

Arcs, series, 250 (2,000 c. p.) arcs capacity.
Incand., alternating, 10,000 lamps capacity.
No. public arcs, 90, lighted to 2 A. M.
No. public incand., 6,000. Lighted all night.
Price arc, Public, 2,000 c. p., per year, \$90.
Price incand., Public, 16 c. p., per yr., \$9.
Price arc, Com'l, per month, \$6.
Price incand., Com'l, 16 c. p., per month, \$1; per kw-h., 20c.
Power used, Steam.
Cost boiler fuel, oil, per barrel, \$1.
(Electricity supplied from Santa Monica over a 40-mile transmission line at 22,000 volts. Also installed at Long Beach a 300 horse-power steam plant.)

Los Angeles Lighting Co., Los Angeles.

Capital stock, \$2,500,000.
Bonds, \$1,000,000; due 1924; interest, 5 p. c.
President, W. B. Cline.
Secretary, R. M. Adams.
Treasurer, H. L. Flash.
Purchasing agent, C. A. Luckenbach.
Manager operating dept., H. M. Corlette.
Process manufacture, water (crude oil).
Population district supplied, 150,000.
No. meters, 29,000.
Miles of mains, 275.
Price gas, 1903: Light and Fuel, gross and net 95c.
Annual output, approx., 1,250,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 15,000.
Supplies Los Angeles and So. Pasadena.

Los Gatos Gas Co., Los Gatos.

Capital stock, \$50,000.
President, G. W. Hume.
Secretary, J. D. Farwell.
Treasurer, J. D. Farwell.
Purchasing agent, J. D. Farwell.
Process manufacture, Oil.
Pop. dist. supplied, 2,500. No. meters, 200.
Miles of mains, approximate, 6.
Price gas, 1903: Light, \$2. Fuel, gross \$2; net \$1.50.
Annual output, approx., 3,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 75.

Marysville Gas and Electric Co, Marysville.

President, John Martin.
Secretary, C. W. Conlisk.
Purchasing agent, L. J. de Sabla.
General manager, L. H. Newbert.
Process manf., Lowe (crude oil).
Pop. dist. supplied, 5,000. No. meters, 664.
Miles of mains, approx., 11.
Price gas, 1903: Light, gross \$2.50; net \$2. Fuel, gross \$2; net \$1.50.
Annual output, approx., 10,229,900.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 4 in.
No. gas stoves in use, 234.
Supplies Yuba City.

"The metropolitan appearance of the lamp itself, together with the clear, white, steady, powerful light, put the **Welsbach** clear in the lead of anything on the market to-day for the purpose of street lighting."

(Signed) W. W. BINGHAM, President, City Council, Omaha.

See advertisement, page xx.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Current furnished by Bay Counties Power Co.
Arc capacity, 50; incand., capacity, 8,000.
No. public arcs, 39; lighted 3,650 hours.
Price arc, Public, per year, \$84.
Price arc, Commercial, per month, \$8.65.
Price incand., Com'l, 16 c. p., per month, 60c.; per kw-h., 10c.

Merced Falls Gas and Electric Co., Merced.

Capital stock, \$250,000.
President, George Crocker.
Secretary, C. H. Shaw.
Treasurer, Com. Bank.
Purchasing agent, A. G. Briggs.
Superintendent, A. G. Briggs.
Process manufacture, Lowe.
Pop. dist. supplied, 4,000. No. meters, 250.
Price gas, 1903; Light, gross and net \$2.50.
Fuel, \$2.
Annual output, approx., 3,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 80 p. c.
Lowest pressure for gas stoves, 1.8 to 2.4 in.
Gas stoves in use, about 107.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, West's and Gen. Elec., 40 (2,000 c. p.) and 20 (1,200 c. p.) arcs capacity.
Incand. system, Stanley, 2,500 lamps capac.
No. public arcs, 6; lighted all and every night.
No public incand., 99.
Price arc, Public, per year, \$117.
Price arc, Commercial, per month, \$9.75.
Price incand., Public, per mo., 32 c. p., \$1 to \$1.10.
Price incand., Com'l, per mo., 16 c. p., to 10 P. M., 50c.; all night, 65c.; 32 c. p., to 10 P. M., \$1; all night, \$1.15.
Power used, Water; two 40-inch and two 30-inch wheels.

Modesto Gas Light, Coal and Coke Co., Modesto.

Capital stock, \$100,000.
President, Frank A. Cressey.
Treasurer, Farmers' and Merchants' Bank.
Pur. agent and supt., Frank A. Cressey, Jr.
Process manufacture, Lowe (crude oil).
Pop. dist. supplied, 3,000. No. meters, 400.
Miles of main approximate, 5.
Price gas, 1903: Light & Fuel, \$2.
Annual output, approx., 10,000,000 c. f.
Candle-power, 21.
Proportion sold for fuel purposes, 33 $\frac{1}{3}$ p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 200.
Supplies Modesto.

Napa Gas and Electric Co., Napa.

President, John Martin.
Secretary, C. W. Conlisk.
Treasurer, R. M. Hotaling.
General manager, John A. Britton.
Chief engineer, E. C. Jones.

Purchasing agent, L. J. de Sabla.
Superintendent, O. E. Clark.
Process manf., Lowe (crude oil).
Pop. dist. supplied, 4,083. No. meters, 502.
Miles of mains, approximate, 7.5.
Price gas, 1903: Light gross \$2.50; net \$2.
Fuel, gross \$2; net \$1.50.
Annual output, approx., 8,400,000 c. f.
Candle-power, 26.
Proportion sold for fuel purposes, 55 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, approximate, 225.
Supplies Napa.

ELECTRICAL DEPARTMENT.

Current furnished by Bay Counties Power Co.
Arc system, Gen. Elec., 100 (1,200 c. p.) capac.
Incand. system, S. K. C., 6,000 lamps capac.
Power generators, 300 kw. capacity.
No. public arcs, 74; lighted 3,650 hours.
No. public incand., 21; lighted 4,380 hours.
Price arc, Public, per year, \$84.
Price incand. Public, per year, \$7.20.
Price arc, Commercial, per month, \$8.
Price incand., Com'l, per mo., 16 c. p., 60c.; residences, 25c.; per kw-h., 12c.; disc. 2 p. c.

Nevada County Gas and Electric Co., Nevada City.

President, E. J. de Sabla.
Secretary, C. W. Conlisk.
Treasurer, R. M. Hotaling.
Purchasing agent, L. J. de Sabla.
General manager, John A. Britton.
Superintendent, John Werry.
Pop. dist. supplied, 4,000. No. meters (1903) 135.
Miles of mains, approximate, 6.
Price gas, 1903: Light, gross \$2.50; net \$2.
Fuel, \$1.50.
Gas supplied from Grass Valley by high pressure main.
Candle-power, 22.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 4 in.
Gas appliances in use, 160.
Supplies Nevada City.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Current furnished by Bay Counties Power Co.
No. public arcs, 4; lighted 3,650 hours.
No. public incandescents (25 c. p.) 110.
Price arc, Public, per year, \$84.
Price incand., Public, per year, \$14.30.
Price arc, Commercial, per mo., average, \$7.
Price incand., Commercial, per mo., 16 c. p., 80c. each; per kw-h., 10c.

Oakland Gas Light and Heat Co., Oakland.

Capital stock, \$3,000,000.
Bonds, \$1,000,000; due 1916; interest, 5 p. c.
President, John A. Britton.
Secretary, C. W. Conlisk.
Treasurer, R. M. Hotaling.
Purchasing agent, F. A. Leach, Jr.
Gas engineer, E. C. Jones.
Electrical engineer, Geo. C. Holberton.

THE **Welsbach** STREET LIGHT possesses great economy over any other method of street illumination. See advertisement, page xx.

Proc. manf., Imp'd Lowe and Coal.
 Pop. dist. supplied, 125,000. No. meters, 20,180
 Miles of mains, approx., 194.
 Price gas, 1903: Light, \$1.25. Fuel, \$1.
 Annual output, approx., 240,000,000 c. f.
 Candle-power, 22.5.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, approximate, 6,800.
 Cities supplied, Oakland, Alameda, Berkely.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Ft. Wayne, T. H., G. E., Brush, 850 (2,000 c. p.) arcs capacity.
 Incand. system, Gen. Elec., 50,000 lamps capac.
 Power generators 750 kw. capacity.
 No. public arcs, 735; hours lighted, 2,500.
 Price arc, Public, per year, \$87.
 Price arc, Commercial, per month, \$8.65.
 Price incand., Commercial, per kw-h., 10c. disc. 10 to 80 p. c.
 Power used, Steam and Water.
 Cost boiler fuel, oil 2c. per gal., coal \$7 per ton.

Oroville Light and Power Co., Oroville.

Capital stock, \$225,000.
 Bonds, \$50,000; due 1926; interest 6 p. c.
 President, J. W. Goodwin.
 Secretary, L. T. Wagner.
 Treasurer, First National Bank of Oroville.
 Manager and pur. agent, Wm. Durbrow.
 Superintendent, James Havey.
 Process manufacture, Lowe.
 Pop. dist. supplied, 3,000. No. meters, 233.
 Miles of mains, 6.
 Price gas, 1903: Light gross, \$3.50; net, \$3. Fuel, gross, \$2.50; net \$2.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 8.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Incand. system, Gen'l Elec. and Stanley, 6,400 lamps capac.
 Power generators, 320 kw. capac.
 No. public incand., 37; lighted 4,380 hours
 Price incand., Public, per year (32 c. p.) \$12.
 Price arc, Commercial, per month, \$5.
 Price incand., Com'l, per mo., 16 c. p., 40 to 60c.
 Price per kw., gross, 12c.; disc., 2c.
 Power used, Water.

Pasadena Consolidated Gas Co., Pasadena.

Capital stock, \$250,000.
 Bonds outstanding, \$250,000; interest, 5 p. c.
 President, W. B. Cline.
 Secretary R. M. Adams.
 Treasurer, W. B. Gard.
 Purchasing agent, W. B. Gard.
 Superintendent, A. C. Corsen.
 Manager, W. B. Gard.
 Gas purchased from Los Angeles Lighting Co.

Pop. dist. supplied, 12,000. No. meters, 3,000.
 Miles of mains, approximate, 50.
 Price gas, 1903: Light and Fuel, 95c.
 Annual output, approx., 75,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 70 p. c.
 Lowest pressure for gas stoves, 4 in.
 Gas stoves in use, 900.
 Supplies Pasadena.

Valley Gas and Fuel Co., Pasadena.

Capital stock, \$500,000.
 President, C. W. Dobbins.
 Secretary, Lynn Helm.
 Treasurer, F. D. Lowe.
 Pur. agent and supt., Thaddeus Lowe.
 General manager, Thaddeus Lowe.
 Process manf., Lowe, Coke-oven and crude oil.
 Pop. dist. supplied, 10,000. No. meters, 900.
 Miles of mains, approximate, 40.
 Price gas 1903: Light and Fuel, gross \$1.25; net \$1.
 Annual output, approx., 25,000,000 c. f.
 Candle power, 21.
 Lowest pressure for gas stoves, 2 in.
 Supplies: Pasadena and So. Pasadena.

Petaluma Gas and Electric Co., Petaluma.

President, John Martin.
 Manager, H. Weber.
 Supplied from Santa Rosa by high pressure pipe line.
 Pop. dist. supplied, 4,500. No. meters, 406.
 Miles of mains, approximate, 11.
 Price gas, 1903: Light, gross \$2.50; net \$2. Fuel, gross \$2; net \$1.50.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 66 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 235.

ELECTRICAL DEPARTMENT.

Current supplied by Bay Counties Power Co.
 No. public arcs, 51; lighted all night.
 Price arc, public per year, \$84.
 Price arc, Com'l per mo., \$8.
 Price incand., Com'l per mo., 60c.
 Per kw., gross, 12c.; disc. 2 p. c.

Pomona and Ontario Light and Fuel Co., Pomona.

Capital stock, \$150,000.
 President, Wm. H. Schweppe.
 Secretary Paul J. Denninger.
 Consulting engineer, L. P. Lowe.
 Pur. agent, Associated Gas Co., Los Angeles.
 Superintendent, I. C. Carter.
 Process manufacture, Lowe (crude oil).
 Pop. dist. supplied, 6,000. No. meters, 410.
 Miles of mains, approximate, 22.
 Price gas, 1903: Light and Fuel, gross \$2; net, \$1.80.
 Annual output, approx., 5,200,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes 60 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 299.
 Towns supplied: Pomona, Ontario and Up-land.

WELSBACH STREET LIGHTING COMPANY OF AMERICA:

GENTLEMEN: I am pleased to add my recommendation to your system of street lighting. From my experience of street lighting, particularly in cities where the streets abound in shade trees, I have found it vastly superior to electric lighting, and believe that it is the proper way for lighting all streets. (Signed) HENRY S. KEARNY, Commissioner, City of New York, Department of Public Buildings, Lighting and Supplies.

See advertisement, page xx.

Red Bluff Electric Light and Gas Co., Red Bluff.

Process manufacture, Lowe (oil).
 Pop. dist. supplied, 3,000. No. meters, 335.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, \$2.
 Annual output, approx., 3,527,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Incand. syst., direct current, 550 lamps capac.
 Power generators, 30 kw.
 Price incand., Com'l, per month, 16 c. p., 60c.
 Power used, Steam.

Northern California Power Co., Redding.

(New company to supply only fuel.)
 Manager, E. V. D. Johnson.
 Process manuf., Lowe (crude oil).
 Pop. district to be supplied, 4,000.
 Miles of mains, approximate, 6.
 Price gas, light and fuel, \$2.

Redlands Gas Co., Redlands.

Capital stock, \$100,000.
 Bonds, \$50,000; due, 1920; interest, 6 p. c.
 President, George B. Ellis.
 Secretary, H. W. Allen.
 Treasurer, First National Bank, Redlands.
 Purchasing agent and supt., B. O. Johnson.
 Process manufacture, Lowe (crude oil).
 Pop. dist. supplied, 6,000. No. meters, 800.
 Miles of mains, approximate, 21.
 Price gas, 1904, Light and Fuel, gross, \$1.75
 net, \$1.57.5.
 Annual output, approx., 12,443,000 c. f.
 Candle-power, 21.
 Proportion sold for fuel purposes, 90 p. c.
 Lowest pressure for gas stoves, 4 in.
 Gas stoves in use, 700.
 Supplies Redlands.

Riverside Light and Fuel Co., Riverside.

Capital stock, \$150,000.
 Bonds, \$50,000; due 1921; interest, 5 p. c.
 President, Geo. H. Dole.
 Secretary, W. F. Jordan.
 Treasurer, W. F. Jordan.
 Purchasing agent, Associated Gas Cos., Los Angeles, Cal.
 Consulting Engineer, L. P. Lowe.
 Process manufacture, New Lowe (crude oil).
 Pop. dist. supplied, 7,000. No. meters, 650.
 Miles of mains, approximate, 25.
 Price gas, 1903: Light and Fuel, gross, \$2; net, \$1.80.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 4 in.
 Gas stoves in use, 400.

Sacramento Electric, Gas and Railway Co., Sacramento.

(Controlled by the California Gas and Electric corporation.)
 Process manufacture, Lowe.

Pop. dist. suppl'd, 25,000. No. meters, 3,600.
 Miles of mains, approximate, 43.
 Price gas, 1903: Light and Fuel, net \$1.
 Annual output, approx., 100,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 80 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 2,000.
 Supplies Sacramento.

ELECTRICAL DEPARTMENT.

(Operated under name of Lighting and Power Dept.)
 Arc system, G. E., T. H., 750 (2,000 c. p.) arcs capac.
 Incand. sys., Gen. Elec., 40,000 lamps capac.
 Power generators, 5,000 h. p. capacity.
 No. public arcs, 403; hours lighted, 3,726.
 No. public incand., 340.
 Price arc, Public, per year, \$87.
 Price incand. Public, per year, \$2.40.
 Price arc, Com'l, per mo., \$5, \$6 and \$9.
 Price incand. Com'l, per mo., 50c. Per kw. gross, 8c. and 10c.
 Power used, Water.

St. Helena Gas and Electric Co., St. Helena.

Capital stock, \$50,000.
 President, H. J. Lewelling.
 Secretary, G. S. Conner.
 Treasurer, Bank of St. Helena.
 Superintendent, G. S. Connor.
 Process manufacture, Van Syckel (oil).
 Pop. dist. supplied, 3,000. No. meters, 150.
 Miles of mains, approx., 5.
 Price gas, 1903: Light, \$4. Fuel, \$3.50.
 Annual output, approx., 1,500,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 50.
 Supplies St. Helena.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Gen. Elec.
 Incand. system, Bryan-Marsh (Imperial)
 1,375 lamps capacity.
 Power generators, 65 kw. capac.
 No. public arcs, 4; Lighted moon schedule.
 No. public incand. 60; Lighted moon schedule.
 Price arc, Public per year (2,000 c. p.) \$90.
 Price incand. Public, per year, \$15.
 Price arc, Com'l, per month (2,000 c. p.) \$7.50;
 (1,200 c. p.) \$6.
 Price incand. Com'l per mo., 75c; per kw.,
 gross, 12.5c.
 Power used, Steam.

Monterey County Gas and Electric Co., Salinas.

(Successor to Salinas Water, Light and Power Co.)
 Capital stock, \$750,000.
 Bonds, \$380,000; due, 1933; interest, 5 p. c.
 President, M. V. McQuigg.
 Secretary, R. C. P. Smith.
 Treasurer, R. C. P. Smith.
 Purchasing agent, M. V. McQuigg.

THE WELSBACH STREET LIGHTING COMPANY OF AMERICA can furnish lanterns and fixtures for every possible contingency that may occur. See advertisement, page xx.

Superintendent, Philo Jones.
Process manufacture, Hoyt (oil gas).
Pop. dist. supplied, 4,000. No. meters, 400.
Miles of mains, approximate, 13.5.
Price of gas 1903: Light and fuel, gross \$1.75;
net \$1.50.
Annual output approx., 14,000,000 c. f.
Candle-power, 26.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 2.4 in.
No. gas stoves in use, 225.

ELECTRICAL DEPARTMENT.

Arc syst., Gen. Elec., 50 (1,200 c. p.) arcs capac.
Incand. system, Gen. Elec. 3,000 lamps capac.
Power generators, 150 kw. capac.
No. public arcs 34, lighted 2,400 hours.
Price arc, Public, per year, \$96.
Price current, per kw., 15c.; disc. 25 p. c.
Power used, Steam.
Cost boiler fuel, oil, per barrel, 79c.

San Bernardino Gas and Electric Co., San Bernardino.

Capital stock, \$200,000.
President, W. S. Hooper.
Secretary, Charles M. Grow.
Treasurer, S. B. National Bank.
Purchasing agent, S. A. Butler.
General manager, C. M. Grow.
Process manufacture, Improved Lowe.
Pop. dist. supplied, 5,000. No. meters, 525.
Miles of mains, approximate, 10.
Price gas, 1903: Light and Fuel, gross \$2; net
\$1.75.

Annual output, approx., 10,000,000 c. f.
Candle-power, 23.
Proportion sold for fuel purposes, 75 p. c.
Lowest pressure for gas stoves, 1.3 in.
Gas stoves in use, 360.

ELECTRICAL DEPARTMENT.

Operated under same name as gas company.)
Arcsyst., Ft. Wayne, 121 (2,000 c.p.) arcs capac.
Incand. syst., Gen. Elec., 6,000 lamps capac.
Power generators, 600 kw. capacity.
No. public arcs, 94; lighted 10 hours per night.
Price arc, Public, per year, \$78.
Price arc, Commercial, per month, \$9.
Price incand., Commercial, per kw., gross,
15c.; disc., 6 to 33 p. c.
Power used, Water and Steam.
Cost boiler fuel, oil, per barrel, 85c.

San Diego Gas and Electric Light Co., San Diego.

Capital stock, \$500,000.
Bonds outstanding, \$325,000; interest, 6 p. c.
President, R. M. Powers.
Secretary, L. M. Arey.
Treasurer, National Bank of Commerce.
Pur. agts., Messrs. Powers and Arey.
Superintendent, R. L. Clarke.
Process manufacture, Coal and Springer.
Pop. dist. supplied, 20,000. No. meters, 1,600.
Miles of mains, approximate, 40.
Price gas, 1903: Light and Fuel, gross \$1.65;
net \$1.50.
Annual output, approx., 30,000,000 c. f.
Candle-power, coal 18; water 22.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 450.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc syst., Ft. Wayne, 400 (2,000 c. p.) arcs cap.
Incand. system, Gen. Elec., 8,000 lamps capac.
No. public arcs, 182; hours lighted, 2,200.
Price arc, Public, per year, \$108.
Price arc, Commercial, per month, \$9.
Price incandescent, Commercial, per month,
16 c. p., \$1.50; per kw-h., 15c. to 20c.
Power used, Steam.
Cost boiler (Australian) coal per ton, \$8.85.

Equitable Gas Light Co., San Francisco.

(Absorbed by San Francisco Gas and Electric Co., San Francisco.)

Pacific Gas Improvement Co., San Francisco.

(Absorbed by San Francisco Gas and Electric Co.)

San Francisco Coke and Gas Co., San Francisco.

(Makes gas for local company.)
Capital stock, \$5,000,000.
President, Isaac Stern.
Vice-president, Henry Dernham.
Secretary, Chas. G. Lyman.
Treasurer, L. Michels.
Engineer, L. P. Lowe.
Superintendent, A. J. Vanderwhite.
Process manufacture, Lowe Coke-Oven.

San Francisco Gas and Electric Co., San Francisco.

(Absorbed the Pacific Gas Improvement Co.,
Equitable Gas Light Co., Independent
Gas and Power Co., Independent Electric
Light and Power Co.)
New bond issue, \$10,000,000; \$100,000 due 1906,
and each succeeding year.
President, Wm. B. Bourn.
Vice-president, Albert H. Payson.
General manager, J. F. Lawless.
(Data below covers plants of the San Fran
cisco Gas and Electric Co. for 1902.)
Process manufacture, Coal and Lowe.
Population, 400,000. No. meters, 35,840.
Miles of mains, approximate, 280.
Price gas, 1902: Light and Fuel, gross and
net \$1.25 (in certain districts 50c., caused
by competition).
No. public Welsbachs, 5,000.
Contract includes repairs, care, lighting and
extinguishing.
No. hours lamp is lighted per year, 3,212.
Annual output, approx., 1,300,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 41 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 9,500.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Brush, Ft. Wayne, 2,200 (2,000
c. p.) arcs capacity.
Incandescent system, West's, Edison, Stanley
160,000 lamps capacity.
Power generators, 8,000 kw. capac.
No. public arcs, 925; hours lighted, 3,212.
No. public incand, 4,000; per kw-h. 5c.
Price arc, Public, per night, 37c.

Extract from report of the Chief Engineer of Fairmount Park, Philadelphia, in regard to Welsbach Park Lights: "The **Welsbach** Lights with which you are now lighting the great pleasure ground of the city of Philadelphia are giving great satisfaction, adding greatly to the attractiveness of the Park."

See advertisement, page xx.

Price arc, Commercial, per mo., \$5.
 Price incandescent, Commercial, per kw-h.,
 3c. to 10c., sliding scale.
 Power used, Steam and Water.
 Cost of boiler fuel, oil, per barrel, 90c.

United Gas and Electric Co., San Jose.

Capital stock, \$2,000,000; annual div. 6 p. c.
 Bonds, \$1,000,000; due 1932; interest, 5 p. c.
 President, J. E. Green.
 Secretary and manager, C. H. Pennoyer.
 Purchasing agent, C. H. Pennoyer.
 Superintendent, A. R. Huntington.
 Process manufacture, Crude Oil and Water.
 Pop. dist. supplied, 50,000. No. meters, 4,000.
 Miles of mains, approx., high pressure, 21;
 low pressure, 55.
 Price gas, 1903: Light, \$1.50. Fuel, \$1.50 to \$1.
 Annual output, approx., 96,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,500.
 Supplies San Jose, Redwood City, Belmont
 and San Mateo.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Current purchased from Standard Electric
 Co. of California.
 Arc system, Gen. Elec., 500(2,000 c. p.) arcs capac.
 Incand. system, G. E., 36,000 lamps capacity.
 Power generators, 3,000 kw.
 No. public arcs, 220; moonlight schedule.
 Price arc, Public, per year, \$40.92.; per kw-h.,
 10c. Disc., light, to 60 p. c.; power, 60 p. c.
 Transmission Water Power used.

San Leandro Gas and Electric Light Co., San Leandro.

(Owned and operated by Suburban Electric
 Light Co.)
 Capital stock, \$500,000; annual div. 6 p. c.
 President, H. W. Meek.
 Secretary, Charles A. Jeffrey.
 Purchasing agent, Wm. Angus.
 Superintendent, A. J. Floyd.
 Process manufacture, Water and Crude Oil.
 Pop. dist. supplied, 3,500. No. meters, 148.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light and Fuel, \$1.75.
 Annual output, approx., 2,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 75 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 80.
 Supplies San Leandro.

ELECTRICAL DEPARTMENT.

(Operated under name of Suburban Electric
 Light Co. Electrical current secured
 from long distance lines.)
 Arc system, G. E., 150 (2,000 c. p.) arcs capac.
 Incand. system, 35,000 lamps capacity.
 No. public arcs, 150; hours lighted, 1,500.
 Price arc, Public, per year, \$60 to \$72.
 Price arc and incand., Commercial, per kw.,
 gross 10c.; power 6c.

San Luis Gas and Electric Co., San Luis Obispo.

(Incorporated with property of the San Luis
 Gas Co. and the San Luis T. H. Electric
 Light Co.)

Capital stock, auth. \$500,000; issued \$150,000.
 President, W. F. Boardman.
 Vice-president, E. S. Hoyt.
 Secretary, R. N. Frick.
 Treasurer and manager, B. F. Thomas.
 Purchasing agent, W. F. Boardman Co.
 Process manufacture, Oil.
 Pop. dist. supplied, 4,500. No. meters, 400.
 Price gas, 1904: Light, and Fuel, gross \$1.75;
 net \$1.50.
 No. public lamps, 1. Price, \$36.
 Consumption, 5 c. f. per hour.
 Price does not include repairs, care, lighting
 and extinguishing.
 No. hours lamp is lighted per year, 3,650.
 Annual output, approx., 4,100,000 c. f.
 Candle-power, 22.
 Lowest pressure for gas stoves, 1.8 in.
 Proportion sold for fuel purposes, 75 p. c.
 No. gas stoves in use, 230.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas com-
 pany.)
 Arc system T. H. 80 (1,200 c. p.) arcs capac.
 Incand. system, Bullock 30,000 lamps capac.
 No. public arcs 18; lighted by moon scale.
 Price arc, Public, per year, \$86.
 Price arc, Commercial, per month \$6.
 Price incand., Com'l, per kw. 15c.; disc. 10 to 20
 p. c.
 Power used, Steam.
 Cost boiler fuel, oil, per barrel, \$1.

San Rafael Gas and Electric Light Co., San Rafael.

President, John Martin.
 Purchasing agent, L. J. de Sabla.
 Manager, F. E. Fitzpatrick.
 Process manf., New Lowe (crude oil).
 Pop. dist. supplied, 5,000. No. meters, 605.
 Miles of mains, approximate 16.
 Price gas, 1903: Light, gross \$2.50; net \$2.
 Fuel, gross \$2; net \$1.50.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 106.
 Supplies San Rafael.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
 gas company.)
 Current furnished by Bay Counties Power Co.
 No. public arcs, 78; hours lighted, 3,650.
 No. public incand. 368; lighted 3,650 hours.
 Price arc, Public, per year, \$84.
 Price incand., Public, per year, 20 c. p., \$12;
 16 c. p., \$7.20.
 Price arc, Commercial, per month, \$8.
 Price incand., Com'l per mo., 16 c. p., 60c.
 Per kw., gross 12c.; disc. 2 p. c.

Have you seen THE **Welsbach** SYSTEM OF STREET LIGHTING in
 operation? We invite examination and comparison. See advertisement,
 page xx.

Edison Electric Co., Santa Anna.

(Owned by the Edison Electric Co., of Los Angeles.)

Capital stock, \$100,000.
President, J. B. Miller.
Secretary, W. R. Saats.
Treasurer, J. B. Miller.
District agent, A. F. Gressler
Technical asst. to pres., W. H. Workman, Jr.
Process manufacture, Lowe.
Pop. dist. supplied, 6,000. No. meters, 450.
Miles of mains, approximate, 7.7.
Price gas, 1903: Light and Fuel, gross and net \$2.
Annual output, approx., 7,500,000 c. f.
Candle-power, 18.
Proportion used for fuel, 60 p. c.
Lowest pressure for gas stoves, 25 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Ft. Wayne, 80 (2,000 c. p.) arcs capacity.
Incand. system, Gen. Elec., 9,000 lamps capac.
No. public arcs, 12; lighted to 12 P. M., moon scale.
No. public incandescents, 460.
Price arc, Public, per year, \$72.
Price arc, Commercial, per mo. to 9 P. M., \$6.
Price incand., Public, per year, 16 c. p., \$7.20.
Price incand., Commercial, per kw-h., 15c.
Power used, Water from South California Power Co.

United Electric, Gas and Power Co., Santa Barbara.

(See Santa Monica.)

Capital stock, \$1,500,000.
Bonds, \$500,000; due 1920; interest, 5 p. c.
President, H. C. Merritt.
Secretary, Geo. I. Cochran.
Treasurer, First National Bank.
Purchasing agent, H. O. Carter.
Superintendent, J. J. Davis.
Process manufacture, Lowe.
Pop. dist. supplied, 10,000. No. meters, 350.
Price gas, 1903: Light and Fuel, gross \$2; net 1.60 to \$2.
No. public lamps, 45. Price per year, \$18.
Consumption per burner per hour, 5 c. f.
Price includes repairs and care.
Lamps lighted 12 P. M. to dawn.
Annual output, approx., 10,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 2.4 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., d. c., 150 (2,000 c. p.) arcs capacity.
Incand. system, National and Gen. Elec., 5,000 lamps capacity.
No. public arcs, 90. Lighted 2,200 hrs. per yr.
No. public incand., 50; lighted by moon scale.
Price arc, Public, per year, \$102.
Price arc, Com'l, per mo., \$7 (9 o'clock) to \$9 (12 o'clock).
Price incand., Public, per year, 50 c. p., \$12.

Price incand., Com'l, per mo., 16 c. p., \$1; per kw., 20c.

Power used, Steam.

Cost boiler fuel, oil, per barrel, 85c.

Santa Clara Municipal Gas Plant, Santa Clara.

Capital stock \$30,000.
Bonds, \$28,500, (\$750 retired annually for 40 years from 1901) 5 p. c.
Chairman Light Committee, D. O. Druffle.
Secretary, Geo. Fenton.
Treasurer, G. Thompson.
Consulting engineer, C. E. Moore.
Process manufacture, Lowe (crude oil only).
Pop. dist. supplied, 3,700. No. meters, 310.
Miles of mains, approximate, 10.
Price gas, 1903: Light and fuel, gross \$1.75.
Annual output, approx., 8,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, approximate 30.

ELECTRICAL DEPARTMENT.

(Operated as Santa Clara Municipal Electrical Plant.)

Arc system, A. C., 60 (2,000 c. p.) arcs capac.
No. public arcs, 48; lighted 1,200 hours.
Price arc, Public, per year, \$42.
Current furnished from California Gas and Electric Co.
Installing new system.

Santa Cruz Electric Light and Power Co., Santa Cruz.

Capital stock, \$300,000.
Bonds, \$30,000; due 1920; interest, 6 p. c.
President, Jas. McNeil.
Secretary, Clyde H. Stone.
Treasurer, County Bank.
Purchasing agent, P. C. Funk.
Manager, H. S. Wanzer.
Superintendent, P. C. Funk.
Process manufacture, Lowe (crude oil).
Pop. dist. supplied, 2,500. No. meters, 300.
Miles of mains, approximate, 12.
Price gas, 1903: Light and fuel, gross \$2.50.
Annual output, approx., 6,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 65 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 250.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Incand. system, T. H. alt., 3,150 lamps capac.
No. public incand. 50; lighted all night; free.
Price arc Com'l, per month (1,200 c. p.) \$8.65.
Price incandescent, Commercial, per month, 16 c. p., 85c.; per kw-h., 12c.
Power used, Water.

United Electric, Gas and Power Co., Santa Monica.

Supplies the following also with electricity:

Santa Barbara,
National Soldiers' Home,
Redondo,
Inglewood,
Gardena,

Extract from report of Department of Public Works, New York City:

"I was very much surprised during a recent visit to Paris to discover that the **Welsbach** had superseded electricity on all the grand avenues, especially the Champs Elysees."

See advertisement, page xx.

CHAS. H. T. COLLIS, Commissioner.

Wilmington,
San Pedro,
Terminal, and
Long Beach.

Capital stock, \$1,500,000.
Bonds, \$500,000; due 1920; interest, 5 p. c.
President, H. V. Carter.
Secretary, George I. Cochran.
Treasurer, First National Bank.
Purchasing agent, H. V. Carter.
Superintendent, J. J. Davis.
Process manufacture, Lowe.
Pop. dist. supplied, 3,500. No. meters, 620.
Miles of mains, approximate, 9.
Price gas, 1903: Light and Fuel, gross \$2;
net \$1.85.
Annual output, approx., 11,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 80 p. c.
Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system of 125 (2,000 c. p.) arcs capacity.
Incand. system of 20,000 lamps capacity.
No. public arcs, 90; hours lighted, 3,200.
No. pub. incand., 1,000; price per year, \$10.80.
Price arc, Public, per year, \$96.
Price arc, Com'l, per month, (2,000 c. p.) \$10.
Price incand., Com'l, per month, 16 c. p., 90c.
Power used, Steam.
Cost boiler fuel, crude oil per barrel, \$1.
(Supplies Soldiers' Home with 25 arcs and
3,500 incandescents; has 45 miles of
transmission line.)

Santa Rosa Lighting Co., Santa Rosa.

President, John Martin.
Manager, D. Decker.
Process manf., New Lowe (crude oil).
Pop. dist. supplied, 10,000. No. meters, 750.
Miles of mains, approximate, 13.
Price gas, 1903: Light, net, \$2. Fuel, net \$1.50.
Annual output, approx. 17,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 65 p. c.
Lowest pressure for gas stoves, 2.3 in.
Gas stoves in use, 400.
Towns supplied: Santa Rosa and Petaluma.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
gas company.)

Current supplied by Bay Counties Power Co.
No. public arcs (1,200 c. p.) 62.
Price arc, Pub., per yr., \$84; lighted 3,650 hrs.
Price arc, Commercial, per month, (1,200 c. p.)
\$8.
Price incand., Commercial, per month, 65c.;
residences 25c.; per kw-h., 12.5c.; disc.
2.5 p. c.

Selma Light and Water Co., Selma.

Capital stock, \$100,000.
Bonds outstanding, \$20,000; interest, 6 p. c.
President, D. S. Snodgrass.
Secretary, W. E. Street.
Treasurer, First National Bank of Selma.
Process manufacture, Lowe (crude oil.)

Pop. dist. supplied, 1,500. No. meters, 125.
Miles of mains, approximate, 5.
Price gas, 1903: Light and Fuel, \$2.50 to \$1.80.
Annual output, approx., 1,500,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 1 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
gas company.)

Alternating generators, 30,000 watts capac.
Price arc, Public, per year, \$96.
Price arc, Commercial, per month, \$5.
Price incand., Com'l, 16 c. p., per month, 75c.
Power used, Steam.
Use oil as boiler fuel.

Stockton Gas and Electric Co., Stockton.

Capital stock, \$1,000,000; issued, \$600,000.
Bonds, \$300,000; due 1905; interest, 6 p. c.
President, F. A. Hihn.
Secretary, A. T. Eastland.
Treasurer, First National Bank.
Purchasing agent, H. E. Adams.
Superintendent, H. E. Adams.
Electrician, F. P. Adams.
Process manf. Oil (also supplies natural gas).
Pop. dist. supplied, 20,000.
No. meters 1,600; natural gas, 700.
Miles of mains, approximate, 25.
Price gas, 1903: Light, gross \$2; net \$1.50.
Fuel, (natural gas) gross \$1; net 95c.
Annual output, approx., 30,000,000 c. f.
Candle-power, 26.
Proportion sold for fuel purposes, 33 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 600.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
gas company.)

Arc system, T. H., 210 (2,000 c. p.) arcs capac.
Incand. system, T. H., 15,000 lamps capacity.
Power generators, 500 kw. capac.
No. public arcs, 200; lighted 2,400 hours.
Price arc, Public, per year, \$45.48.
Price arc, Commercial, per mo., \$5.
Price incand., per kw.; gross, Com'l, max
5c., min., 2.5c.
Power used, Water.

Vallejo Gas Light Co., Vallejo.

Capital stock, \$75,000.
President, F. W. Hall.
Secretary, G. W. Wilson.
Purchasing agent, D. Brosnahan.
Superintendent, J. W. Thomas.
Process manufacture, Coal.
Pop. dist. supplied, 10,000. No. meters, 600.
Miles of mains, approximate, 8.
Price gas, 1903: Light and Fuel, gross \$2.50.
Annual output, approx., 7,500,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 4 in.
Gas stoves in use, 250.
Supplies Vallejo.

The perfection of the service rendered where the IMPROVED WELSBACH STREET LIGHT is in use has been particularly noted. See advertisement, page xx.

Watsonville Light and Power Co., Watsonville.

(Consolidation of the Pajaro Gas and Electric Co., and the electric plant of the Watsonville Water and Light Co.)
(Gas plant in course of construction.)
Capital stock, \$100,000.
Process manufacture, Lowe (crude oil) high pressure system.
Pop. dist. to be supplied, 4,500.
Miles of mains to be laid, approximate, 8.
Price gas to be \$1.50.
To supply Watsonville.

ELECTRICAL DEPARTMENT.

(No report.)

Watsonville Gas Co., Watsonville.

Capital stock, \$80,000.
Bonds, \$30,000; due 1922; interest, 5 p. c.
President, John G. Whitson.
Secretary, A. Harris.
Purchasing agent, W. T. Gunder.
Superintendent, John Clements.
Process manufacture, (Hydrocarbon) Water.
Pop. dist. supplied, 6,000. No. meters, 500.
Miles of mains, 9.
Price gas, 1903: Light and Fuel, gross \$2; net \$1.50.
Annual output, approx., 5,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 70 p. c.
Lowest pressure for gas stoves, 3.2.

Whittier Light and Fuel Co., Whittier.

Capital stock, \$100,000.
President, A. Hadley.
Secretary, W. H. Brown.
Pur. agent, Associated Gas Companies.
Superintendent, Paul J. Denninger.
Consulting engineer, L. P. Lowe.
Process manf., Lowe (crude oil).

Pop. dist. supplied, 3,500. No. meters, 200.
Miles of mains, approx., 8.
Price gas, 1903; Light and Fuel, gross, \$2; net \$1.80.
Annual output, approx., 3,500,000 c. f.
Proportion sold for fuel purposes, 80 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 165.

Woodland Gas and Electric Co., Woodland.

(Absorbed by Central Gas and Electric Co.)
Secretary, C. W. Conlisk.
Treasurer, R. M. Hotaling.
Purchasing agent, L. J. de Sabla.
General manager, John A. Britton.
Local manager, W. E. Osborn.
Process manf., Lowe (crude oil).
Pop. dist. supplied, 3,000.
No meters: Light, 206; fuel, 291.
Miles of mains, approximate, 8.5.
Price gas, 1903: Light, gross, \$2.50; net, \$2. Fuel, gross, \$2, net, \$1.50.
Annual output, approx., 7,566,100 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 72 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 250.
Supplies Woodland.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Current furnished by Colgate power; generators run by high pressure.

Arc system, Gen. Elec., 50 arcs capac.
Incand. system, Edison, 5,300 lamps capac.
No. public arcs, 49; lighted every night.
Price arc, Public, per year, \$84.
Price arc, Com'l, per mo., \$8; lighted all night.
Price incand., Com'l, per mo., 16 c. p., 60c.
Per kw., gross, 12c.; dis., 2c.

COLORADO.

Boulder Gas Co., Boulder.

Capital stock, \$200,000.
President, Peter English.
Vice-president, E. A. Austin.
Secretary and pur. agent, Frank English.
Treasurer, A. J. Macky.
Superintendent, Frank English.
Process manf., Peter English (water).
Pop. district supplied, 9,000. No. meters, 220.
Miles of mains, approximate, 9.5.
Price gas, 1903: 75c.
Annual output, approx., 18,000,000 c. f.
Candle-power, 16.
Proportion sold for fuel purposes, 75 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 90; heaters, 387; furnaces, 8.

Canon City Gas Co., Canon City.

(In operation since Oct. 1, 1903.)
Capital stock, \$100,000.

Bonds, auth., \$75,000; due, 1922; int. 5 p. c.
President, H. A. Black.
Secretary, J. D. Taylor, Jr.
Treasurer, Geo. N. Lawrence.
Pur. agent and supt., J. D. Taylor, Jr.
Process manufacture, Lowe.
Pop. dist. supplied, 8,000. No. meters, 125.
Miles of mains, approximate, 5.
Price gas, 1903: Light, gross \$2; net \$1.75.
Fuel, net \$1.25.
Supplies Canon City.

Colorado Springs Light and Power Co., Colorado Springs.

Capital stock, \$300,000; annual div., 4 p. c.
Bonds, \$300,000; due 1919; int., 5 p. c.
President, Irving W. Bonbright.
Assistant secretary, Ira A. Miller.
Assistant treasurer, F. W. Stehr.
Purchasing agent, Edwin E. Witherby.

Welsbach System of Street Lighting

Superintendent, Ira A. Miller.
 Process manufacture, Lowe and Coal.
 Pop. dist. supplied, 25,000. No. meters, 2,000.
 Miles of mains, approximate, 31.
 Price gas, 1903: Light, gross \$2; net \$1.80.
 Fuel, gross \$1.10; net \$1.
 Annual output, approx., 55,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 3 in.
 Cities supplied: Colorado Springs and Colorado City.

Denver Gas and Electric Co., Denver.

Capital stock issued, \$3,500,000.
 Bonds, \$5,885,000; due 1949; int., 5 and 6 p. c.
 President, Irvin Butterworth.
 Vice-president and Gen. Manager, Paul Doty.
 Secretary, Frank W. Frueauff.
 Treasurer, R. B. Sullivan.
 Purchasing agent, H. W. Thompson.
 Superintendent, M. E. Malone.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 164,000. No. meters, 21,738.
 Miles of mains, approximate, 132.
 Price gas, 1903: Light, gross \$1.35; net \$1.25.
 Fuel, gross \$1.15; net \$1.
 Annual output, approx., 500,000,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 55 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 11,000.
 Supplies Denver.

ELECTRICAL DEPARTMENT.

Operated under same name as gas company.)
 Arc system, Brush, T. H., 2,000 (2,000 c. p.) arcs capacity.
 Incand. syst., West'se, 121,000 lamps capac.
 Power generators, 1,750 kw. capacity.
 Price arc, Commercial, per month, to 10 P. M., \$6; all night, \$10.
 Price incandescent, per kw-h., 10c. to 3c.; discount 10 p. c.
 Power, per kw-h., 3c.
 Power used, Steam.
 Cost boiler coal per ton, \$2.75.

San Juan Coke and Gas Company, Durango.

(Plant in course of construction.)
 President, Geo. W. Brown.
 Vice-president, F. R. Field.
 Secretary and treas., Everett B. Church.

Greeley Gas Co., Greeley.

Capital stock, \$50,000.
 President, Geo. J. Spear.
 Secretary, Alfred Riley.
 Treasurer, M. A. Bunker.
 General superintendent, M. A. Bunker.
 Process manf., Practical (oil).
 Pop. dist. supplied, 5,000. No. meters, 176.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light and Fuel, \$2.
 Annual output, approximate, 2,500,000.
 Candle-power, 24.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 5 in.
 Gas stoves in use, 114.
 Supplies Greeley.

Leadville Gas and Electric Co., Leadville.

Capital stock, pref., \$200,000.
 President, Charles Boettcher.
 Vice-president, R. B. Sullivan.
 Secretary, C. K. Boettcher.
 Treasurer, C. K. Boettcher.
 Purchasing agent, F. C. Webber.
 Superintendent, F. C. Webber.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 450.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$3.25; net \$2.75.
 Fuel, gross \$2; net \$1.50.
 Annual output, approx., 15,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 11.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Brush, 200 (2,000 c. p.) arcs capac.
 Incand. system, Edison, 10,000 lamps capac.
 No. public arcs, 65; hours lighted, 4,000.
 Price arc, Public, per year, \$100.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.60.

Pueblo Gas and Fuel Co., Pueblo.

Capital stock, \$300,000.
 Bonds, \$500,000; due 1917; interest, 5 p. c.
 President, L. E. Eyman.
 Secretary, B. K. Durfee.
 Treas. and pur. agent, L. E. Eyman.
 Superintendent, W. C. Paullins.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 40,000. No. meters, 2,500.
 Miles of mains, approximate, 45.
 Price gas, 1903: Light, gross \$1.75; net \$1.50.
 Fuel, gross, \$1.25; net, \$1.
 Annual output, approx., 80,000,000 c. f.
 Candle-power, 16.
 Percentage sold for fuel purposes, 55 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,200.

Trinidad Gas Co., Trinidad.

(Works owned and operated by the Las Animas Light, Power and Mfg. Co.)
 Capital stock, \$100,000.
 President, Thos. B. Stearns.
 Secretary, Chas. F. Lacombe.
 Superintendent, D. S. Harper.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,500. No. meters, 220.
 Price gas, 1903: Light, gross \$1.60. Fuel, \$1.
 Annual output, approx., 7,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Business conducted under name, Las Animas Light, Power and Mfg. Co.)
 Arc system, W. Elec., T. H., 75 (2,000 c. p.) arcs capacity.
 Incand. system, Edison, West'se, 2,000 lamps capacity.
 No. public arcs, 64; lighted, moon scale

THE **WELSBACH STREET LIGHT** possesses absolute immunity from flickering or smoke in the lanterns; also from bugs and other outside obstructions to illumination. See advertisement, page xx.

Price arc, Public, per year, \$96, all night; to 12 P. M., \$64.80.
Price arc, Com'l, per mo., to 8 P. M., \$7; to 10 P. M., \$9; to 12 P. M., \$10.50; all night, \$12.50.

Price incand., per mo., to 8 P. M., 85c.; to 10 P. M., \$1.10; to 12 P. M., \$1.30; all night, \$1.65; per kw-h., 12.5 to 15c.
Power used, Steam.
Cost boiler coal per ton, \$1.

CONNECTICUT.

Bridgeport Gas Light Co., Bridgeport.

Capital stock, pref., \$1,000,000; com. \$300,000.
Bonds, \$1,000,000; due 1952; interest, 4 p. c.
President, I. De Ver Warner.
Vice-president, De Ver H. Warner.
Secretary, George W. Roberts.
Treasurer, George W. Roberts.
Superintendent, Chas. M. Gerdenier.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 82,000. No. meters, 7,335.
Miles of mains, approximate, 120.
Price gas, 1903; Light and Fuel, gross \$1.50; net \$1.25 to \$1.
No. public Welsbach lamps, 143.
Consumption per burner per hour, 4 c. f.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 243,643,000 c. f.
Candle-power, 20.
Lowest pressure for gas stoves, 2.5 in.

Price gas, 1903; Light, gross \$2; net \$1.80.
Fuel, \$1.44.
Annual output, approx., 2,000,000 c. f.
Candle-power, 25.
Lowest pressure for gas stoves, 2 in

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Ball, 85 (1,200 c. p.) arcs capac.
Incand. system, Gen. Elec., 1,200 lamps capac.
No. public arcs, 47; hours lighted, 1,800.
No. public incandescents, 6.
Price arc, Public, per year, \$72.
Price arc, Commercial, per month, \$6.25.
Price incand., Public, per year, 25 c. p., \$16.
Price incandescent, Commercial, per month, 16 c. p., 90c., per kw-h., 20c.
Power used, Steam.
Cost boiler fuel per ton, \$4.25.

Danbury and Bethel Gas and Electric Light Co. Danbury.

Capital stock, com. \$200,000.
Bonds, \$150,000; due 1954; interest, 5 p. c.
President, C. H. Merritt.
Secretary, G. E. Cowperthwait.
Treasurer, A. N. Wildman.
Purchasing agent, G. E. Cowperthwait.
Superintendent, G. E. Cowperthwait.
Process manufacture, Edgerton (oil).
Pop. dist. supplied, 20,000.
Price gas, 1903; Light, gross 6c. per hour for 14 c. p. burner. Fuel, 15 to 25 p. c. disc. from light rate.
Candle-power, 40.
Lowest pressure for gas stoves, 2 in.
Cities supplied: Danbury and Bethel.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company).
Arc system, Gen. Elec.
Incandescent system, alt.
No. public arcs, 129; hours lighted, 1,700.
Price arc, Public, per hour, 4c.
Price arc, Commercial, per mo., \$6.
Price incand., Com'l, per kw-h., 16c.; dis. 5 p. c.
Power used, Steam Engine.
Cost boiler coal per ton, \$5.

Peoples Light and Power Co., Danielson.

Capital stock, com. \$60,000.
Bonds outstanding, \$30,000; interest, 6 p. c.
President, H. S. Pratt.
Secretary, A. G. Bill.
Treasurer and pur. agt., H. S. Shaw.
Superintendent, E. J. Wolcott.
Process manufacture, Evans.
Pop. dist. supplied, 4,000. No. meters, 150.

Derby Gas Co., Derby.

Capital stock, \$300,000.
Bonds outstanding, \$250,000; interest, 4 p. c.
President, Charles H. Nettleton.
Secretary, George H. Scranton.
Treasurer, Charles H. Nettleton.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 24,500. No. meters, 3,950.
Miles of mains, approx., 41.
Price gas, 1903; Light and Fuel, gross \$1.40; net \$1.25.
Annual output, approx., 99,500,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 3,200.
Cities supplied: Ansonia, Derby and Shelton.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, T. H., 335 (1,200 c. p.) arcs capac.
Incand. system, Gen. Elec., 8,000 lamps capac.
Power generators, 475 kw. capacity.
No. public arcs, 171; hours lighted, 2,100.
Price arc, Public, per year, \$60.
Price arc, Com'l, per month, \$5 upward.
Price incand., Com'l, per kw-h., 15c.
Power used, Water and Steam.
Cost boiler fuel per ton, \$4.25.

Hartford City Gas Light Co., Hartford.

Capital stock, \$750,000; annual div., 8 p. c.
President, E. B. Bennett.
Vice-president, S. R. Bertron.
Secretary, John A. McArthur.
Treasurer, R. E. Slade.
Pur. agent and gen. mgr., R. E. Slade.
Superintendent, J. W. Hatstat.
Process manufacture, Coal and Lowe.

"I would state that the **Welsbach** System of Street Lighting that was installed in this city in June, 1898, has proved entirely satisfactory to this Department."

(Signed) WILLIAM D. LANG, Superintendent of Lamps, Boston, Mass.

See advertisement, page xx.

Pop. dist. supplied, 85,000. No. meters, 13,200.
Miles of mains, approximate, 100.
Price gas, 1903: Light and Fuel, gross \$1.10;
net \$1.
Annual output, approx., 300,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 3.5 in.
Gas stoves in use, 7,500.
Cities supplied: Hartford, West Hartford and
Wethersfield.

Meriden Gas Light Co., Meriden.

Capital stock, \$350,000; an. div. (gas co.) 7 p. c.
President, Walter Hubbard.
Secretary, Samuel Dodd.
Treasurer, Samuel Dodd.
Purchasing agent, Chas. A. Learned.
Superintendent, Chas. A. Learned.
Process manufacture, Coal.
Pop. dist. supplied, 25,000. No. meters, 3,800.
Miles of mains, approximate, 32.
Price gas, 1903: Light and Fuel, gross \$1.50;
net \$1.35.
Annual output, approx., 79,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, 2,500.
Supplies Meriden.

ELECTRICAL DEPARTMENT.

(Business conducted under the name of
Meriden Electric Light Co.)

Arc system, Stanley 200 (2,000 c. p.) arcs capac.
Incandescent system, Edison 3-wire, 6,000
lamps capacity.
No. public arcs, 195; hours lighted, 4,000.
Price arc, Public, per year, \$120.
Price arc, Commercial, meter rates.
Price incand., Com'l, per kw-h., 12.5c.
Power, 3c. to 10c. per kw-h.
Power used, Steam.
Cost boiler fuel per ton, \$5.

Middletown Gas Light Co., Middletown.

Capital stock, \$150,000.
President, William H. Burrows.
Secretary and treasurer, H. L. Mansfield.
Purchasing agent, H. L. Mansfield.
Superintendent, S. D. Clark.
Process manufacture, Lowe.
Pop. dist. supplied, 13,000. No. meters, 1,300
Miles of mains, approximate, 12.
Price gas, 1903: Light, gross \$1.60; net, \$1.50.
Fuel, gross and net \$1.40.
Annual output, approx., 26,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 3 in.

New Britain Gas Light Co., New Britain.

Capital stock, \$200,000.
President, A. J. Sloper.
Secretary, H. T. Sloper.
Treasurer, A. J. Sloper.
Purchasing agent, H. M. Belle.
Superintendent, H. M. Belle.
Process manufacture, Coal.
Pop. dist. supplied, 20,000. No. meters, 2,500.

Price gas, 1903: Light, gross \$1.50; net \$1.40.
Fuel and large consumers, \$1.25 and \$1.
No. public lamps, 22.
Price does not include repairs, care, light-
ing and extinguishing.
No. hours lamp is lighted per year, 3,000.
Annual output, approx., 50,000,000 c. f.
Candle-power, 18.
Lowest pressure for gas stoves, 1.4 in.
Gas stoves in use, 1,100.
Supplies New Britain.

Mt. Vernon Woodberry Cotton Duck Co., Greenwoods Div., New Hartford.

Value of gas-works, \$35,000.
Treas., Walter M. Smith (Greenwoods Div.)
Process manufacture, Hayes.
Pop. dist. supplied, 3,000. No. meters, 75.
Price gas, 1903: Light, gross \$1.50.
Annual output, approx., 1,600,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 1.5 in.

New Haven Gas Light Co., New Haven.

Capital stock, \$2,000,000; annual div., 8 p. c.
President, Charles H. Nettleton.
Secretary and treasurer, F. M. Travis.
Supt. and engineer, J. Arnold Norcross.
Process manufacture, Lowe and Coal.
Pop. dist. supplied, 125,000. No. meters, 23,366.
Miles of mains, approximate, 186.
Price gas, 1903: Light and Fuel, gross \$1.10;
net, \$1.
No. public Welsbach lamps, 1,359.
Contract includes repairs, care, lighting and
extinguishing and royalties.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 617,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, about 8,200.
Cities supplied: New Haven, East Haven,
Westville, West Haven and Woodmont.

New London Gas and Electric Co., New London.

Capital stock, \$300,000.
President, Robt. Coit.
Vice-president, Augustus Brandegee.
Secretary, W. G. Bushnell.
Treasurer, A. M. Young.
General manager, F. M. Tait.
Process manufacture, Lowe.
Pop. dist. supplied, 19,000. No. meters, 1,500.
Miles of mains, approximate, 13.
Price gas, 1903: Light, \$1.75; Fuel, \$1.40. Dis-
counts, 5 to 25 p. c.
Annual output, approx., 32,000,000 c. f.
Candle-power, 25.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 750.
Supplies New London.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, G. E., 385, (1,200 c. p.) arcs capac.
Incand. system, Gen. Elec., 25,000 lamps cap.

Beware of infringements and imitations. **THE WELSBACH STREET LIGHTING COMPANY OF AMERICA** is the sole proprietor of **THE WELSBACH SYSTEM OF STREET LIGHTING**. See advertisement, page xx.

No. public arcs, 181. All night, every night.
No. public incand., 200. All night, every night.
Price arc, Public, per year, \$90.
Price incand., Public, per year, 25 c. p., \$20.
Price arc and incand., Com'l, per kw-h.,
15c.; disc. 5 to 25 p. c.
Power used, Steam.
Cost boiler coal, per ton, \$4.25.

Connecticut Railway and Lighting Co., Norwalk.

Cap. stock, pref., \$4,000,000; com., \$11,000,000.
Bonds, \$9,483,000; due 1951; interest, 4.5 p. c.
President, A. M. Young.
Sec'y and treas., Lewis Lillie.
Asst. treasurer, E. W. Poole.
Purchasing agent, J. A. Pearson.
Superintendent, A. V. Wainwright.
General manager, J. E. Sewell.
Process manufacture, Coal.
Pop. dist. supplied, 25,000. No. meters, 2,531.
Miles of mains, approximate, 35.
Price gas, 1903: Light, gross \$1.55; net \$1.45.
Fuel, gross \$1.35; net \$1.25.
Annual output, approx., 47,000,000 c. f.
Candle-power, 16.
Proportion used as fuel, 41 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 1,047.
Cities supplied: Norwalk, South Norwalk,
East Norwalk and Nangattuck.

Norwich Gas and Electric Co., Norwich.

Capital stock, \$400,000.
Bonds \$414,000; interest, 5 p. c.
President, C. H. Osgood.
Sec'y and treas., A. M. Young.
General manager, Alex. J. Campbell.
Process manufacture, Coal.
Pop. dist. supplied, 22,000. No. meters, 2,000.
Miles of mains, approximate, 24.
Price gas, 1903: Light, gross \$1.75; net \$1.55.
Fuel, gross \$1.40; net \$1.26.
Annual output, approx., 30,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 1.5 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Gen. Elec.
Incandescent system, Gen. Elec.
No. public arcs, 198; lighted dusk to dawn.
No. public incand., 177; lighted 2,400 hours.
Price arc, Public, per year, \$90.
Commercial arcs sold by meter.
Price incandescent, Public, 25 c. p., \$15; per
kw-h., 17.5c.
Power used, Steam.
Cost boiler fuel per ton, \$4.50.

Putnam Light and Power Co., Putnam.

Capital stock, \$50,000.
Bonds, \$23,400; due 1920; interest, 4.5 p. c.
President, Geo. A. Hammond.
Secretary, A. W. Bowen.
Treasurer, A. W. Bowen.
Purchasing agent, A. W. Bowen.
Superintendent, A. W. Bowen.
Process manufacture, Lowe.
Pop. dist. supplied, 7,000. No. meters, 518.
Miles of mains, approximate, 6.

Price gas, 1903: Light, gross \$1.80; net \$1.62.
Fuel, gross \$1.45; net \$1.25.
Annual output, approx., 7,500,000 c. f.
Candle-power, 24.
Proportion sold for fuel purposes, 33 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 175.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc syst., Gen. Elec., 75 (1,200 c. p.) arcs capac.
Incand. system, Gen. Elec., 2,000 lamps capac.
Power generators, 100 kw. capacity.
No. public arcs, 49; hours lighted, 1,800.
No. public incand., 45; hours lighted, 1,800.
Price arc, Public, per year, \$75.
Price incand., Com'l, per month, 16 c. p., 80c.
Price incand., Public, per year, 16 c. p., \$15.
Price arc, Com'l, per month, \$5.
per kw-h., gross 20c.; disc., 10 to 20 p. c;
Power used, Steam.
Cost boiler fuel per ton, \$4.80.

Rockville Gas and Electric Co., Rockville.

Capital stock, pref., \$25,000; com., \$65,300.
Bonds outstanding, \$100,000; interest, 5 p. c.
President, A. M. Young.
Secretary, D. F. Burritt.
Treasurer, F. W. Marsh.
Purchasing agent, J. B. Thomson.
Superintendent, J. B. Thomson.
Process manufacture, Lowe.
Pop. dist. supplied, 7,000. No. meters, 500.
Price gas, 1903: Light, gross \$1.75; net \$1.58.
Fuel, gross \$1.75; net \$1.31.
Annual output, approx., 10,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 2 in.
Supplies Rockville.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, T. H., 200 (1,200 c. p.) arcs capacity.
Incand. system, T. H., 1,500 lamps capacity.
No. public arcs, 78; lighted 300 nights to 1 a.m.
No. public incandescents, 40.
Price arc, Public, per year, \$75.
Price incand., Public, per year, 25 c. p., \$18.
Price arc, Com'l, 12 nights per month, \$5.
Price incand., Com'l, per kw-h., 17.5c.; dis-
count, 10 p. c.
Power used, Steam.
Cost boiler fuel per ton, varies.

Stamford Gas and Electric Co., Stamford.

Capital stock, \$500,000.
Bonds, \$300,000; due 1927; interest, 5 p. c.
President, Walton Ferguson.
Secretary, C. H. Lounsbury.
Treasurer, George H. Hoyt.
Purchasing agent, R. Crawford.
Superintendent, R. Crawford.
Process manufacture, Lowe.
Pop. dist. supplied, 16,000. No. meters, 1,250.
Miles of mains, approximate, 19.
Price gas, 1903: Light, gross \$1.75; net \$1.60.
Fuel, gross \$1.40; net \$1.25.
Annual output, approx., 24,000,000 c. f.
Candle-power, 22.

The "Candle Power" given by the IMPROVED **Welsbach** STREET LIGHT is more efficient for street illuminations than that obtained by any other means. See advertisement, page xx.

Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 1.5 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, T. H., Schuyler, 300 (1,200 c. p.) arcs capacity.

Incand. system, Gen. Elec., 5,000 lamps capac
No. public incand., 616; lighted 4,000 hours.
Price arc, Com'l, per month, to 12 P. M., \$7.
Price incand., Public, per yr., 25 c. p., \$22.
Price incand., Com'l, per mo., all night, 16 c. p., \$1.50; 32 c. p., \$2.25; per kw-h., 20c.
Power used, Steam.
Cost boiler fuel per ton, \$3.25.

Torrington Electric Light Co., Torrington.

Capital stock, \$125,000.
President, G. D. Workman.
Secretary, F. F. Fuessenich.
Treasurer, F. F. Fuessenich.
Purchasing agent, F. F. Fuessenich.
Superintendent, C. E. Smith.
Process manufacture, Lowe.
Pop. dist. supplied, 9,500. No. meters, 1,090.
Miles of mains, approximate, 11.5.
Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.50.

Annual output, approx., 20,000,000 c. f.
Candle-power, 23.
Lowest pressure for gas stoves, 1.7 in.
Gas stoves in use, 500.
Supplies Torrington.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Incand. system, Stanley 4,800 lamps capac.
Power generators, 245 kw. capacity.
No. public incandescents, 25 c. p., 175.
Price incand., Public, per yr, 25 c. p., \$25.50.
Price incand., Com'l, per kw., gross, 15c.; disc. 5 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$5.

Wallingford Gas Light Co., Wallingford.

Capital stock, \$40,000.
Bonds, \$60,000; due 1924; int., 5 p. c.
President, Ralph T. Ives.
Secretary, Charles I. Parmelee.
Treasurer, Ralph T. Ives.
Purchasing agent, Ralph T. Ives.
Superintendent, Ralph T. Ives.
Process manf., Humphreys and Glasgow.
Pop. dist. supplied, 7,500. No. meters, 325.
Miles of mains, approximate, 10.
Price gas, 1903: Light and Fuel, gross and net \$1.50.

Annual output, approx., 10,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 225.
Supplies Wallingford.

United Gas Improvement Co., Waterbury.

(Lessee of Waterbury Gas Light Co.)
Treasurer, Lewis Lillie.
Pur. agent, J. A. Pearson, Philadelphia, Pa.
Supt. and agt., E. H. Williams.

Process manufacture, Lowe.
Pop. dist. supplied, 55,000. No. meters, 8,736.
Miles of mains, approximate, 42.
Price gas, 1903: Light and Fuel, gross \$1.50 to \$1.15.

Annual output, approx., 182,900,000 c. f.
Candle-power, 25.
Proportion sold for fuel purposes, 15 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, 3,301.
Supplies Waterbury.

Winsted Gas Co., West Winsted.

Capital stock, \$125,000.; annual div., 6 p. c.
Bonds, \$50,000; due 1920; interest, 4 p. c.
President, R. E. Holmes.
Sec'y and treas., H. Skinner.
Pur. agent and supt., H. Skinner.
Process manufacture, Lowe.
Pop. dist. supplied, 6,000. No. meters, 800.
Miles of mains, approximate, 16.
Price gas, 1903: Light and Fuel, gross and net \$1.50.
Annual output, approx., 10,000,000 c. f.
Candle-power; 22.
Lowest pressure for gas stoves, 1.3 in.
Gas stoves in use, 430.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Brush, 90 (1,200 c. p.) arcs capac.
Incand. system, Stanley, 2,200 lamps capac.
Power generators, 60 kw. capacity.
No. public arcs, 90; lighted all and every night.
Price arc, Public, per year, \$80.
Price incand., Com'l, per month, 16 c. p., 75c.
Power used, Water.

Willimantic Gas and Electric Light Co., Willimantic.

Capital stock, \$200,000.
Bonds, \$300,000; due 1921; interest, 4.5 p. c.
President, J. F. Church.
Secretary, C. W. Noyes.
Treasurer, George A. Lewis.
Purchasing agent, J. F. Church.
Superintendent, A. E. Jackman.
Process manufacture, Coal and Water.
Pop. dist. supplied, 10,000. No. meters, 860.
Miles of mains, approximate, 25.
Price gas, 1903: Light gross, \$1.85; net, \$1.75
Fuel gross, \$1.35; net, \$1.25.
Annual output, approx., 15,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 400.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Westinghouse, Adams, 100 arcs capacity.
Incand. system, West's, 4,000 lamps capac.
No. public arcs, 91; lighted 4,000 hours.
Price arc, Public, per year, \$92.
Price arc, Commercial, per month, \$5.
Price incand., Com'l, per kw. gross, 20c.; disc. 20 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$5.

The **Welsbach** STREET LIGHT is now extensively used on many of the principal streets of New York City. See advertisement, page xx.

Dover Gas Light Co., Dover.

Capital stock, \$22,000.
 President, H. A. Richardson.
 Secretary, Du Pont Walker.
 Treasurer, Du Pont Walker.
 Purchasing agent, H. A. Richardson.
 Superintendent, Du Pont Walker.
 Process manufacture, Lowe.
 Pop. dist. supplied, 4,000. No. meters, 475.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light and Fuel, gross \$1.40; net \$1.26.
 Annual output, approx., 6,500,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 100.
 Supplies Dover.

New Castle Gas Co., New Castle.

(Receiver applied for.)
 Capital stock, \$45,000.
 Bonds outstanding, \$29,000; int., 5 and 6 p. c.
 President, James G. Shaw.
 Secretary, John M. McCann.
 Treasurer, John M. McCann.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,500. No. meters, 200.
 Price gas, 1902: Light, \$1.50. Fuel, \$1.50.
 Annual output, approx., 3,900,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 2.5 in.

Smyrna Coal Gas Co., Smyrna.

(Owners, Jos. Smithers and P. Maguire.)
 Capital stock, \$16,000.
 Bonds outstanding, \$2,000.
 President, P. Maguire.

Sec'y and treas., Jos. Smithers.
 Purchasing agent, Jos. Smithers.
 Process manufacture, Coal.
 Pop. dist. supplied, 2,500. No. meters, 175.
 Miles of mains, approximate, 3.
 Price gas, 1903: Light and Fuel, net \$1.30.
 Annual output, approx., 2,500,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use 75.

Oxy-Hydrogen Co., Wilmington.

(No report. Works built but no mains laid.)

Wilmington Gas and Electric Co., Wilmington.

Capital stock, pref. \$700,000; com., \$500,000.
 Bonds, \$1,000,000; interest, 4.5 p. c.
 President, James Dobson.
 Vice-president, Edmund Mitchell.
 Secretary, Wm. P. Taylor.
 Treasurer, Wm. P. Taylor.
 Superintendent, Edward J. Curley.
 Consulting engineer, Thomas Curley.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 80,000. No. meters, 9,733.
 Miles of mains, approximate, 78.5.
 Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
 No. public lamps, 600.
 Consumption per burner per hour, av., 4 c. f.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 276,000,000 c. f.
 Candle-power, 20.
 Proportion sold day consumption, 36 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas ranges in use, 2,700.
 Supplies Wilmington.

DISTRICT OF COLUMBIA.**Georgetown Gas Light Co., Georgetown.**

Capital stock, \$150,000; annual div., 10 p. c.
 President, W. Riley Deeble.
 Secretary, Frank Paul Leetch.
 Treasurer, Frank Paul Leetch.
 Purchasing agent, Frank Paul Leetch.
 Superintendent, Robert L. Middleton.
 Process manufacture, Coal.
 Pop. dist. supplied, 16,000. No. meters, 1,800.
 Miles of mains, approximate, 18.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.25.
 No. public lamps, 483. Price per year, \$20.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 67,000,000 c. f.
 Candle-power, 22.
 Lowest pressure for gas stoves, 1.5 in.
 Supplies Georgetown and Cleveland Park.

Washington Gas Light Co., Washington.

Capital stock, \$2,600,000.
 Bonds, \$600,000; due 1902 and 1904, int., 6 p. c.
 Certificates of indebtedness, div'd \$2,600,000; due 1908-23; int. 6 p. c.
 President, John R. McLean.
 Secretary, William B. Orme. *& Treas.*
 Assistant secretary, Sanford N. Whitwell.
~~Treasurer, John C. Poor.~~
 Superintendent, Jas. S. McIlhenny.
 Gen. mgr. and pur. agt., ~~John Leetch.~~ *Hart*
 Process manufacture, Lowe, Wilkinson, Coal.
 Population district supplied, 278,000.
 No. meters, 36,323.
 Price gas, 1903: Gross \$1.25; net \$1.
 No. public lamps, 7,037. Including 581 Welsbachs.
 Price open flame, per year, \$20.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 3,760.
 Annual output, approx., 1,662,309,000 c. f.
 Candle-power, 25.
 Lowest pressure for gas stoves, 1.2 in.

Extract from report of Brooklyn Parks:

"The **Welsbach** Lights are better adapted for Park Roads, being closer to the ground and free from shadows, and giving a clear, straight, white light." See advertisement, page xx.

Gainesville Gas Co., Gainesville.

Value of plant, \$35,000.

Owners { E. E. Proctor, Wakefield, Mass.
C. W. Morse, Haverhill, Mass.

Superintendent, George I. Doig.

Process manufacture, Sutherland.

Pop. dist. supplied, 5,000. No. meters, 291.

Miles of mains, approximate, 8.

Price gas, 1903: Light, gross \$2.25; net \$2.

Fuel, gross \$2; net \$1.80.

Annual output, approx., 4,000,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 20 p. c.

Lowest pressure for gas stoves, 1.5 in.

Gas stoves in use, 105.

Citizens Gas Co., Jacksonville.

Capital stock, pref., 50,000; com., \$100,000.

Bonds, \$127,000; due 1918; interest, 6 p. c.

President, A. S. Hubbard.

Vice-president, A. D. Stevens.

Secretary, J. A. Marvin.

Treasurer, J. A. Marvin.

Purchasing agent, D. J. Dougherty.

Superintendent, D. J. Dougherty.

Process manufacture, Lowe.

Pop. dist. supplied, 38,000. No. meters, 1,500.

Miles of mains, approximate, 25.

Price gas, 1903: Light, gross \$2; sliding disc.

Fuel, gross \$2; net \$1.50.

Annual output, approx., 38,000,000 c. f.

Candle-power, 20.

Proportion sold for fuel purposes, 70 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 1,050.

Citizens Gas, Heat, Light and Power Co., Ocala.

Capital stock, \$20,000.

Bonds, \$4,800; due 1904; interest, 6 p. c.

President, Geo. MacKay.

Secretary, D. W. Davis.

Treasurer, Geo. MacKay.

Pur. agent and supt., W. C. Moore.

Process manufacture, Lowe.

Pop. dist. supplied, 5,000. No. meters, 94.

Miles of mains, approximate, 2.5.

Price gas, 1903: Light, gross \$2; net \$1.80.

Fuel, \$1.50.

Annual output, approx., 3,250,000 c. f.

Candle-power, 24.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 1.5 in.

Gas stoves in use, 18; radiators, 13.

South Florida Gas and Electric Light Co., Orlando.

Capital stock, \$50,000.

Bonds outstanding, \$32,000; int., 7 per cent.

President, J. N. Bradshaw.

Sec'y and treas., E. F. Sperry.

Purchasing agent, L. L. Payne.

Superintendent, Harry P. Len.

Process manufacture, Lowe-Granger.

Pop. dist. supplied, 4,250. No. meters, 240.

Miles of mains, approximate, 8.

Price gas, 1903: Light, gross \$2.50; net \$2.25.

Fuel, gross \$2.25; net \$2.02.

Annual output, approx., 3,500,000 c. f.

Candle-power, 19.

Proportion sold for fuel purposes, 35 p. c.

Lowest pressure for gas stoves, 2.5 in.

Gas stoves in use, 150.

Supplies Orlando.

Palatka Gas Light and Fuel Co., Palatka.

Capital stock, \$20,000.

Bonds, \$34,000; due 1920; interest, 7 p. c.

President, G. Loper Bailey.

Secretary, R. F. Adams.

Treasurer, R. F. Adams.

Manager, C. J. Hayes.

Pur. agent and superintendent, C. J. Hayes.

Process manufacture, Lowe.

Pop. dist. supplied, 2,500. No. meters, 150.

Miles of mains, approximate, 3.

Price gas, 1903: Light, gross \$2.50; net \$2.25.

Fuel, gross \$2; net \$1.80.

Annual output, approx., 1,400,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 20 p. c.

Lowest pressure for gas stoves, 1.5 in.

Gas stoves in use, 35.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Fort Wayne, 60 (2,000 c. p.) arcs capac.

Incand. system, Ft. Wayne, 1,000 lamps capac.

No. public arcs, (2,000 c. p.) 17. Lighted all night.

No. incand. (32 c. p.), 102. Lighted all night.

Price arc, Public, per year, \$82.

Price arc, Commercial, per month, \$8.

Price incand., Public, per year, 32 c. p., \$15.

Price incand., Com'l, per mo., stores, 75c., dwellings, 50c. Burning till midnight.

Price per kw., gross 12c.

Power used, Steam.

Price boiler fuel, pine wood, per cord, \$2.

Pensacola Gas Co., Pensacola.

Capital stock, \$200,000.

President, Samuel T. Bodine.

Secretary, Lewis Lillie.

Treasurer, Lewis Lillie.

Pur. agent, J. A. Pearson, Philadelphia, Pa.

Superintendent, C. F. Zeek.

Process manufacture, Lowe.

Pop. dist. supplied, 22,000. No. meters, 1,402.

Miles of mains, approximate, 15.

Price gas, 1903: Light, gross \$2.10; net \$2.

Fuel, gross \$1.60; net \$1.50.

No. public lamps, 212, inc. 198 Welsbachs.

Consumption per burner, per hour, 3 c. f.

Contract includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 3,142.

Annual output, approx., 24,000,000 c. f.

Candle-power, 25.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use about 554.

Supplies Pensacola.

St. Augustine Gas and Electric Light Co., St. Augustine.

Capital stock, \$97,000.

President, Joseph Bushnell.

Secretary, Lewis Lillie.

Treasurer, Lewis Lillie.

THE Welsbach SYSTEM distributes the light over all portions of the area illuminated. See advertisement, page xx.

Pur. agent, J. A. Pearson, Philadelphia, Pa.
 Superintendent, George Old.
 Process manufacture, Lowe.
 Pop. dist. supplied, 5,000. No. meters, 1,030.
 Miles of mains, approximate, 11.
 Price gas, 1903: Light, gross \$2; net \$1.75.
 Fuel, gross \$2; net \$1.50.
 No. public lamps, 218. Price per year, \$20.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and
 extinguishing.
 No. hours lamp is lighted per year, 3,000.
 No. public Welsbachs, 3 (incl. above).
 Annual output, approx., 24,446,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 481.
 Supplies St. Augustine.

Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 25.

Capital City Light and Fuel Co., Tallahassee.

Capital stock, com. \$30,000.
 Bonds outstanding, \$60,000; interest, 6 p. c.
 President, Jos. S. Keen, Jr.
 Secretary, H. Bayard Hodge.
 Treasurer, Geo. M. Bunting.
 General supt., Jas. H. Dawes.
 Local supt., C. A. Spencer.
 Process manufacture, Coal.
 Price gas, 1903: Light and fuel, \$1.75.
 Pop. dist. supplied, 5,000. No. meters, 240.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 2 in.

Sanford Light and Fuel Co., Sanford.

Capital stock, \$40,000.
 Bonds, \$25,000; due 1911; interest, 6 p. c.
 President, F. H. Rand.
 Secretary, Geo. H. Fernald.
 Treasurer, S. O. Chase.
 Purchasing agent, S. O. Chase.
 Superintendent, S. O. Chase.
 Process manufacture, Lowe.
 Pop. dist. supplied, 2,000. No. meters, 1900, 160.
 Price gas, 1903: Light, gross and net \$2.50.
 Fuel, gross and net \$2.
 No. public lamps, 67. Price per year, \$25.
 Consumption per burner per hour, 5 c. f.
 Price includes care, lighting and extin-
 guishing.
 Lighted by moon scale.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 5 p. c.

Tampa Gas Co., Tampa.

Capital stock, \$150,000.
 President, Edward Manrara.
 Vice-president, A. J. Boardman.
 Sec'y and treas., Frank Bruen.
 Purchasing agent Frank Bruen.
 Superintendent, F. R. Nettles.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 555.
 Miles of mains, approximate, 20.
 Price gas, 1903: Light and Fuel, gross \$2
 net \$1.80.
 No. public Welsbach lamps, 439.
 No. hours lamp is lighted per year, 2,700.
 Annual output, approx., 17,500,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 200.
 Supplies Tampa.

GEORGIA.

Americus Illuminating and Power Co., Americus.

Capital stock, \$100,000.
 Bonds outstanding, \$85,000; interest, 6 p. c.
 President, U. B. Harrold.
 Secretary, U. B. Harrold.
 Treasurer, U. B. Harrold.
 Purchasing agent, J. H. Hagerty.
 Superintendent, J. H. Hagerty.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,674. No. meters, 430.
 Miles of mains, approximate, 4.5.
 Price gas, 1903: Light, gross \$2; net, \$1.50.
 Fuel, \$1.50.
 Annual output, approx., 7,750,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 85.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Brush, 120 (1,200 c. p.) arcs
 capacity.

Incand. system, T. H. alt., 650 lamps capac.
 No. public arcs, 67; hours lighted 3,000.
 Price arc, Public, per year, \$65.
 Price, incand., Com'l, per mo., 16 c. p., [\$1;
 price per kw. gross 20c.; disc. 10 to 50 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.

Athens Gas Co., Athens.

Capital stock, \$50,000.
 President, John B. Cocke.
 Sec'y and treas., Hollins N. Randolph.
 Purchasing agent, John B. Cocke.
 Superintendent, John A. Hodgson.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 300.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, \$2; Fuel, \$1.50.
 Annual output, approx., 6,500,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 125.

Owing to the shape of the Welsbach Mantle, the illumination of the street from
 an IMPROVED **Welsbach STREET LIGHT** is equal in every direction. This is not the
 case with other methods of lighting. See advertisement, page xx.

Atlanta Gas Light Co., Atlanta.

Capital stock, pref. \$600,000; com. \$1,014,625.
 Bonds, \$1,150,000; due 1947; interest, 5 p. c.
 President and manager, W. L. Cosgrove.
 Vice-president, P. S. Arkwright.
 Secretary, T. K. Glenn.
 Treasurer, G. W. Brine.
 Superintendent, F. B. Crowell.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 125,000. No. meters, 11,000.
 Miles of mains, approximate, 122.
 Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
 Annual output, approx., 405,000,000 c. f.
 Candle-power, 21.
 Proportion sold for fuel purposes, 45 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, about 8,000.

Gas Light Co. of Augusta, Augusta.

Capital stock, \$300,000; annual div., 5 p. c.
 Bonds outstanding, \$300,000; interest 5 p. c.
 President, D. B. Dyer.
 Secretary, F. W. Plumb.
 Purchasing agent, Wm. B. Miller.
 Superintendent, Wm. B. Miller.
 Process manufacture, Coal.
 Pop. dist. supplied, 44,000. No. meters, 2,463.
 Miles of mains, approximate, 41.
 Price gas, 1903: Light, gross \$1.75; net \$1.25.
 Fuel, gross \$1.50; net \$1.
 Annual output, approx., 58,976,600 c. f.
 Candle-power, 18.
 Proportion sold for fuel, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,590.
 Supplies Augusta and Summerville.

Mutual Light and Water Co., Brunswick.

(Successor of Brunswick Light and Water Co.)
 Bonds outstanding, total for gas, electric and water plants, \$218,000; interest, 4 p. c.
 President, Albert Fendig.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000. No. meters, 110.
 Miles of mains, approximate, 11.
 Price gas, 1903: gross Light, \$2. Fuel, \$1.50.
 No. public lamps, 138. Price per year, \$19.25.
 Consumption per burner per hour, 5.5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Lighting by moonlight schedule 10 hours.
 Annual output, approx., 7,500,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, small.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 50 (2,000 c. p.) arcs capac.
 Incand. system, Gen. Elec., 3,500 lamps capac.
 No. public arcs, 53; hours lighted, 4,015.
 Price arc, Public, per year, \$80.
 Price arc, Commercial, per month, \$7.50.
 Price incand. (according to number of lights),
 Com'l, per mo., 16 c. p., 65c. to 90c. Residences, 12c. to 60c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.65.

Cartersville Gas Works, Cartersville.

(Owned by city. Purchased Aug. 1, 1903.)
 Purchasing agent and supt., J. E. Wikle.
 Process manufacture, Oil.
 Pop. dist. supplied, 4,000. No. meters, 150.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light and Fuel, \$10; disc. 40 and 50 p. c. Coal-gas basis, \$1.25 to 50c.
 No. public lamps, 75. Price per year, \$12.
 Consumption per burner per hour, 2.5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Lighted by moonlight schedule, 2,686 hours.
 Annual output, approx., 2,686,000 c. f.
 Candle-power, 50.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 2 in.

Gas Light Co. of Columbus, Columbus.

Capital stock, \$81,175.
 Bonds, \$15,000; due, 1911; int. 6 p. c.
 President, Geo. J. Baldwin.
 Sec'y and treas., A. A. Wilbur.
 Asst. secretary, Henry R. Hayes.
 General managers, Stone and Webster.
 Manager and pur. agent, H. S. Reynolds.
 Superintendent, James Ferrier.
 Process manufacture, Coal.
 Pop. dist. supplied, 20,000. No. meters, 911.
 Miles of mains, approximate, 16.
 Price gas, 1903: Light, gross \$1.35 to \$1.85; net \$1.25 to \$1.75; av. \$1.57. Fuel, gross \$1.20 to \$1.35; net \$1.10 to \$1.25; av. \$1.19.
 Power, gross \$1.20; net \$1.10.
 No. public Welsbach lamps, 3.
 Consumption per burner per hour, 3 c. f.
 No. hours lamp is lighted per year, 2,200.
 Annual output, approx., 21,500,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, 300.
 Supplies Columbus.

Dalton Gas Works, Dalton.

(Owned by city.)
 President, G. W. Hamilton.
 Treasurer, City Treasurer.
 Pur. agent and supt., F. A. Hamilton.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,500. No. meters, 217.
 Miles of mains, approximate, 7.5.
 Price gas, 1903: Light and Fuel, \$1.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 40.

ELECTRICAL DEPARTMENT.

(Operated under name of Dalton Electric Light Works.)
 No. public arcs, 60.
 Price arc, Public, per year, \$38.
 Power used, Steam.
 Cost boiler coal per ton, \$2.50.

THE WELSBACH STREET LIGHT gives the highest candle power of light for the least money. See advertisement, page xx.

Macon Gas Light and Water Co., Macon.

President, H. T. Powell.
 Secretary, W. G. Solomon.
 Treasurer, Stuart Wood.
 Manager, H. L. Rice.
 Supt. and pur. agent, O. M. Diall.
 Process manf., Coal and Water.
 Pop. dist. supplied, 35,000. No. meters, 1,700.
 Miles of mains, approximate, 50.
 Price gas, 1903: Light, gross and net \$1.50.
 Fuel, gross \$1.35; net \$1.25.
 Annual output, approx., 50,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 500.

Rome Municipal Gas Co., Rome.

President, Andrew L. Fennessy.
 Purchasing agent, James Hannan.
 Superintendent, Jas. Hannan.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 350.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light, gross \$2.10; net \$2.
 Fuel, gross \$1.50; net \$1.30.

Annual output, approx., 9,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 95.
 Cities supplied: Rome and East Rome.

Savannah Gas Co., Savannah.

Capital stock, pref., \$450,000; com., 550,000.
 Bonds, \$1,000,000; due 1923; interest, 5 p. c.
 President, Samuel T. Bodine.
 Vice-president, John W. Golden.
 Treasurer and sec'y, Lewis Lillie.
 Pur. agent, J. A. Pearson, Philadelphia, Pa.
 Superintendent, S. E. Linton, Jr.
 Process manufacture, Lowe.
 Pop. dist. supplied, 54,000. No. meters, 5,193.
 Miles of mains, approximate, 53.
 Price gas, 1904: Light and Fuel, gross \$1.35; net \$1.25.
 Annual output, approx., 133,083,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 4,191.
 Supplies Savannah.

IDAHO.

Boise Gas Light Co., Ltd., Boise.

(In course of construction.)
 President, Alexander Ross.

Secretary, W. N. Donaldson.
 Process manufacture, Coal.
 Pop. dist. to be supplied, 12,000.

ILLINOIS.

Alton Light and Traction Co., Alton.

(Consolidation of Alton Railway, Gas and Electric Co., and Alton and East Alton Railway and Power Co.)
 Capital stock, auth., \$1,000,000; issued, pref. \$500,000; annual div., 5 p. c.; com., \$150,000.
 Bonds, \$617,000; due 1943; int., 5 p. c.
 President, J. F. Porter.
 Secretary, C. A. Caldwell.
 Treasurer, J. F. Porter.
 Purchasing agent, J. F. Porter.
 Superintendent, Henry Maguire.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 900.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$1.60; net \$1.50.
 Fuel, gross \$1.10; net \$1.
 Annual sales, approx., 18,000,000. c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 700.
 Supplies parts of Alton and No. Alton.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Hartford, Brush, 300 (2,000 c. p.) arcs capacity.

Incand. syst., Gen. Elec., 15,000 lamps capac.
 Power generators, 200 kw. capacity.
 No. public arcs, 200; lighted 4,000 hours.
 No. public incand. 70; lighted 2,500 hours.
 Price arc, Public, per year, \$69.
 Price incand., Public, per year, 30 c. p., \$15.
 Price arc and incand., Com'l, per kw-h. gross, 10c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1 to \$1.75.
 (Operates 15 miles of railway and hot water heating plant.)

Fox River Light, Heat and Power Co., Aurora.

Capital stock, \$450,000; annual div., 6 p. c.
 Bonds, \$466,000; due 1942; interest, 5 p. c.
 President, T. H. Day.
 Vice-president, J. O. Mason.
 Secretary, E. W. Trask.
 Treasurer and mgr., I. C. Copley.
 Purchasing agent, I. C. Copley.
 Engineer, P. O'Malley.
 Electrician, Wm. Willett.
 Process manufacture, Lowe and Coal.
 Pop. dist. supplied, 36,000. No. meters, 5,600.
 Miles of mains, approximate, 140.
 Price gas, 1903: Light and fuel, gross \$1.20; net \$1.15 to \$1.
 Annual output, approx., 147,000,000 c. f.

Welsbach Street Lighting Co. of America

Candle-power, 22.
Proportion sold for fuel purposes, 52 p. c.
Lowest pressure for gas stoves, 2.8 in.
Gas stoves in use, about 4,800.
Supplies Aurora, Batavia, Geneva and St. Charles.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
Arc system, T. H., 150 (2,000 c.p.) arcs capac. 45 (1,200 c. p.)
Incand. system, Gen. Elec., 18,000 lamps capac.
Power generators, 500 kw. capacity.
(The municipal plant lights the streets.)
Price arc, Com'l, per month, (2,000 c. p.) till 11 o'clock, \$4; all night, \$5; 24 hours, \$6.
Price incand., Com'l, per kw-h., 12c. gross; disc., 2 to 7 p. c.; net 5 to 10 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$1.70.

Belleville Gas and Electric Co., Belleville.

Capital stock, pref., \$150,000; com., \$200,000.
Annual dividend, 4 p. c.
Bonds outstanding, \$266,000; interest, 5 p. c.
President, Edward Abend, Sr.
Secretary, W. F. Kircher.
Treasurer, W. F. Kircher.
Purchasing agent, H. H. White.
Superintendent, H. H. White.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 22,000; No. meters, 1,127.
Miles of mains, approximate, 16.
Price gas, 1903: Light, gross \$1.50; net \$1 and \$1.25. Fuel, gross \$1.25; net \$1 to \$1.15.
Annual output, approx., 29,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 2.2 in.
Gas stoves in use, 725.
Supplies: Belleville.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Gen. Elec., series, 225 (2,000 c. p.) arcs capacity.
Incand. system, Gen. Elec., 8,400 lamps capac.
Power generators, 290 kw. capacity.
No. public arcs, 172; hours lighted, 2,175.
Price arc, Public, per year, \$62.50.
Price Commercial, arc and incandescent, per kw-h., 15c.; disc. 10 p. c. to 50 p. c.
Power used, Steam.
Cost boiler fuel per short ton, \$1.30.

Belvidere Gas and Electric Co., Belvidere.

Capital stock, \$150,000.
Bonds outstanding, \$23,000; interest, 6 p. c.
President, A. J. Stahl.
Sec'y and treas., C. E. Barrett.
Gen. mgr. and pur. agt., C. L. Powell.
Process manufacture, Lowe Improved.
Pop. dist. supplied, 8,000. No. meters, 500.
Miles of mains, approximate, 15.
Price gas, 1903: Light and Fuel, net \$1.20.
Annual output, approx., 15,000,000 c. f.

Candle-power, 18.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 300.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc sys., W. Elec., 115 (2,000 c. p.) arcs capac
Incand. system, West'se, 3,000 lamps capac.
Yaryan central station heating system, 96,000 ft. radiation; 20c. gross, disc. 10 p.c.
Power generators, 330 kw. capac.
Price arcs, Public, per year, (2,000 c. p.) 11 all night, \$90; 94 to midnight, \$65.
Price current, gross, per kw. 20c.; disc. 25 p. c.
Power used, Steam.

Union Gas and Electric Co., Bloomington.

Capital stock, \$400,000.
President, J. A. Wilcox.
Secretary, Willard Parritt.
Treasurer, J. O. Willson.
Purchasing agent, J. A. Wilcox.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 30,000. No. meters, 3,800.
Miles of mains, approximate, 45.
Price gas, 1903: Light, gross \$2; net \$1.50.
Fuel, gross \$1.25; net \$1.
Annual output, approx., 50,000,000 c. f.
Proportion sold for fuel purposes, 45 p. c.
Candle-power, 18.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 1,700.
Cities supplied: Bloomington and Normal.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, W. Elec., 100 (2,000 c. p.) arcs capacity.
Incand. system, West'se, 4,000 lamps capac.
Price arc, Commercial, per month, \$6.
Price incand., Commercial, per kw-h., gross 10c.; disc. 10 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$2.

Cairo City Gas Co., Cairo.

Capital stock, \$100,000.
President, W. P. Halliday.
Vice-president, M. C. Wright.
Secretary, John W. Eakin.
Treasurer, John S. Aisthorpe.
Superintendent, John W. Eakin.
Process manufacture, Coal.
Pop. dist. supplied, 13,000. No. meters, 1,250.
Miles of mains, approximate, 15.
Price gas, 1903: Light, gross \$2.25; net \$1.75 to \$2. Fuel, \$1.50.
No. public lamps, 275. Price per year, \$15.
Price includes repairs, care and lighting.
Lighted by moon scale.
Gas stoves in use, 325.

Peoples Gas and Electric Light Co., Canton.

Capital stock, \$50,000.
President, Wm. H. Parlin.
Secretary, Eugene Smith.
Treasurer, Eugene Smith.
Purchasing agent, Eugene Smith.

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA furnishes a special Park Lamp, which is particularly suitable for the lighting of public parks and boulevards. See advertisement, page xx

Superintendent, Eugene Smith.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,500. No. meters, 950.
 Miles of mains, approximate, 16.
 Price gas, 1903: Light, gross \$2; net \$1.50 to \$1.25. Fuel, gross \$1.50; net \$1 to 90c.
 Annual output, approx., 16,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 58 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 525.
 Supplies Canton.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 125 (1,200 c. p.) arcs capac.
 Incand. system, West'se, 3,000 lamps capac.
 No. public arcs, 125; hours lighted, 2,255.
 Price arc, Public, per year, \$48.
 Price incand., Com'l, per kw-h., gross 10c.; disc. 10 to 20 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$1.50.

Carlinville Gas and Electric Light Works, Carlinville.

(Private ownership.)
 President, W. L. Mounts.
 Secretary, William McKinley.
 Treasurer, W. L. Mounts.
 Purchasing agent, Wm. McKinley.
 Superintendent, Wm. McKinley.
 Process manufacture, Coal.
 Pop. dist. supplied, 3,800. No. meters, 300.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, net \$2. Fuel, \$1.50.
 Annual output, approx., 5,014,400 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 100.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Ft. Wayne, 80 (2,000 c. p.) arcs capacity.
 Incand., operated from arc circuit.
 No. public arcs 49; lighted all and every night.
 No. public incand., 4.
 Price arc, Public, per year, \$72.50.
 Price arc, Commercial, per month, \$7.50.
 Price incand., Public, per year, 16 c. p., \$18.
 Price incand., Com'l, per mo., 25 c. p., \$1.25.
 Power used, Steam.
 Cost of boiler coal per ton, slack, 80c.

Centralia Gas and Electric Co., Centralia.

Capital stock, \$150,000.
 President, M. M. Stephens.
 Secretary and treas., L. D. Turner.
 Purchasing agent, F. L. Marshall.
 Superintendent, F. L. Marshall.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,500. No. meters, 836.
 Miles of mains, approximate, 25.
 Price gas, 1903; Light and Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 18,000,000 c. f.

Candle-power, 18.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 200.
 Supplies Centralia.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Ft. Wayne, 100 (2,000 c. p.) arcs capacity.
 Incand. syst., National, 6,000 lamps; Warren, 1,500 lamps capacity.
 Power generators, 300 kw. capacity.
 No. public arcs, 90; lighted by moon scale.
 Price arc, Public, per year, \$66.66.
 Price arc and incand. Com'l, per kw., gross, 15c.; disc. 5 to 30 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$1.

Urbana and Champaign Gas and Electric Co., Champaign.

Capital stock, \$500,000.
 Bonds, \$435; due 1916; interest, 5 p. c.
 President, W. B. McKinley.
 Secretary, Edward Woodman.
 Treasurer, Edward Woodman.
 Purchasing agent, H. J. Pepper.
 Superintendent, H. J. Pepper.
 Process manufacture, Coal.
 Pop. dist. supplied, 16,000. No. meters, 1,100.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$1.75; net \$1.50. Fuel, \$1.50.
 No. public Welsbach lamps, 1.
 Annual output, approx., 26,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 450.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Western Electric, series, open, 200 (2,000 c. p.) arcs capacity.
 Incandescent system, Westinghouse alt., 5,500 lamps capacity.
 No. public arcs, 140; hours lighted, 3,000.
 No. public incandescents, 200.
 Price arc, Public, per year, \$65.
 Price arc, Commercial, per month, \$5 to \$7.
 Price incand., Public, per 16 c. p. hour, 0.75c.
 Price incand., Com'l, per 16 c. p. hour, 0.75c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.

Charleston Gas and Electric Co., Charleston.

Capital stock, \$180,000.
 Bonds, \$80,000.
 President, Ning Eley.
 Secretary and treas., G. C. Campbell.
 Purchasing agent and mgr., F. A. Brooks.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 250.
 Miles of mains, approximate, 7.
 Price gas 1903: Light and Fuel gross, \$1.50; net, \$1.35.
 Lowest pressure for gas stoves, 1.5 in.

THE **Welsbach** SYSTEM OF STREET LIGHTING is employed in the following cities: New York City, Philadelphia, Pa., Freehold, N. J., East Orange, N. J., New Haven, Conn., Brookline, Mass., Cambridge, Mass., New Rochelle, N. Y., Omaha, Neb., Springfield, O., Boston, Mass., New Bedford, Mass., Bridgeport, Conn., Dayton, O., Pensacola, Fla., St. Louis, Mo., Providence, R. I., San Francisco, Cal., Yonkers, N. Y., Milwaukee, Wis., Portland, Me., and various other cities. See advertisement, page xx.

Gas stoves in use, 175.
Supplies Charleston.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Western Electric Machine, 100 (2,000 c. p.) arcs capac.
Incandescent system, Gen'l Elec., 8,000 lamps capacity.
Power generators, 220 kw. capacity.
No. public arcs, 75.
Price arc, Public, per year, \$75; per kw., gross, 20c.; disc. 33 and 50 p. c.
Power used, Steam.
Cost boiler coal per ton, \$1.20.

Ogden Gas Co., Chicago.

Capital stock, \$5,000,000.
Bonds, \$6,000,000; due 1945; interest, 5 p. c.
President, Thomas Gahan.
Secretary, Roger C. Sullivan.
Treasurer, Roger C. Sullivan.
Gen. manager, Theo. V. Purcell.
Superintendent, F. E. Luther.
Process manufacture, Lowe.
Population, dist. supplied, 300,000.
No. meters, 28,500.
Miles of mains, approximate, 76.
Price gas, 1903: Light, net 90c.
Annual output, approx., 1,000,000,000 c. f.
Candle-power, 26.
Lowest pressure for gas stoves, 1.5 in.

Peoples Gas Light and Coke Co., Chicago.

Capital stock, \$32,969,100; annual div., 6 p. c.
Bonds outstanding, \$34,496,000; int., 5 p. c.
President, Geo. O. Knapp.
Secretary, L. A. Wiley.
Treasurer, W. S. McCrea.
Superintendent, John Williamson.
Process manf., Lowe, Springer, Hanlon.
Pop. dist. sup., 2,000,000. No. meters, 347,750.
Miles of mains, approximate, 1,872.
Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
No. public lamps, 24,948. Inc. 10,959 Welsbachs.
Consumption per burner per hour, 4 c. f.
No. hours lamp is lighted per year, 3,786.
Candle-power, 26.
Proportion sold for fuel purposes, 27 p. c., exclusive of natural gas.
Lowest pressure for gas stoves, 1.6 in.

Chicago Heights Gas Co., Chicago Heights.

Capital stock, \$100,000.
President, Chas H. Wacker.
Secretary, Francis Lackner.
Treasurer Chas. H. Wacker.
Pop. to be supplied, 12,000.

Clinton Gas Co., Clinton.

Capital stock, \$50,000.
President, Chas. Ridgely.
Secretary and treasurer, M. S. Gillespie.
General mgr. and pur. agent, W. H. Odiorne.
Superintendent, F. H. Smith.
Process manufacture, Coal.
Pop. dist. supplied, 7,000. No. meters, 425.

Miles of mains, approx., 6.75.
Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.25.
Annual output, approx., 7,000,000 c. f.
Candle power, 16.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 310.
Supplies Clinton.

ELECTRICAL DEPARTMENT.

(Operated under name of gas company.)
Arc system, G. E., Brush, 125 (2,000 c. p.) arcs capacity.
Incand. system, West'se, Ft. Wayne, 2,800 lamps capac.
Power generators, 250 kw. capac.
No. public arcs, 80; lighted moon schedule.
Price arc, public, per year, \$60.
Price arc, Com'l, per mo. (2,000 c. p.) all night, \$7.50.
Price incand. Com'l, per mo. (16 c. p.) all night, \$1.50; per kw. gross, 15c.; dis. 10 p. c.
Power used, Steam.
Cost boiler coal per ton, \$1.75.

Danville Street Railway and Light Co., Danville.

Capital stock, \$700,000.
Bonds outstanding, \$525,000; interest, 5 p. c.
(This capital includes all property owned.)
President, W. B. McKinley.
Secretary and treas., J. B. McCauley.
Purchasing agent, L. E. Fischer.
Manager, L. E. Fischer.
Superintendent, W. A. Mires.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 12,000. No. meters, 1,000.
Miles of mains, approximate, 13.
Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.25.
Annual output, approx., 30,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 20 p. c.
Gas stoves in use, 750.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Brush, 750 (2,000 c. p.) arcs capac.
Incand. system, Stanley, Ed., 25,000 lamps capacity.
Power generators, 1,000 kw. capacity.
No. public arcs, 250; hours lighted, 3,000.
Price arc, Public, per year, \$30.
Price arc, Commercial, per month, \$5.
Price incand., Com'l, per kw., gross, 10c; disc; 10 to 50 p. c.
Power used, Steam.
Cost boiler coal per ton, \$1.25

Decatur Gas and Electric Co., Decatur.

Capital stock, \$400,000.
Bonds outstanding, \$400,000; interest, 5 p. c.
President, J. Manchester Haynes.
Secretary, W. C. Johns.
Treasurer, G. E. Macomber.
Process manufacture, Lowe and Coal.
Pop. dist. supplied, 25,000. No. meters, 2,400.
Miles of mains, approximate, 22.

THE **Welsbach** STREET LIGHT possesses absolute immunity from flickering or smoke in the lanterns; also from bugs and other outside obstructions to illumination. See advertisement, page xx.

Price gas, 1903: Gross and net, Light \$1.25; Fuel, \$1.
 Annual output, approx., 47,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,000.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Ft. Wayne, 120 (2,000 c. p.) arcs capacity.
 Incand. system, Gen. Elec., 10,000 lamps capac.
 Power generators, 230 kw. capacity.
 Price arc, Com'l, per month, to 12 P. M., \$8.
 Price incand., Com'l, per kw-h., 10c. to 15c.
 Power used, Steam.
 Cost boiler fuel per ton, 90c.

DeKalb County Gas Co., DeKalb.

Capital stock, \$200,000.
 Bonds, \$156,000; due 1926; interest 5 p. c.
 President, N. A. McClary.
 Vice-pres. and pur. agent, E. E. Morrell.
 Secretary, A. H. Gross.
 Treasurer, Irwin Rew.
 Superintendent, R. K. Runner.
 Process manufacture, Coal.
 Pop. dist. supplied, 11,000; No. meters, 1,200.
 Miles of mains, approximate, 28.
 Price gas, 1903: Light and Fuel, gross \$1.35; net \$1.25.
 Annual output, approx., 30,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure available for gas stoves, 2 in.
 Gas stoves in use, 1,000.
 Cities supplied: DeKalb and Sycamore.

Dixon Power and Lighting Co., Dixon.

Capital stock, \$100,000.
 Bonds, \$50,000; due, 1910; interest, 5 p. c.
 President, F. A. Watson.
 Secretary, Ed. P. Maxwell.
 Treasurer, F. E. Stiteley.
 Pur. agent and supt., Ed. P. Maxwell.
 Process manufacture, Patton (oil).
 Pop. dist. supplied, 10,000. No. meters, 300.
 Miles of mains, approximate, 11.
 Price gas, 1903: Light, gross \$2, net \$1.35; Fuel, \$1.25.
 Candle-power, 18 to 20.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1 in.
 Gas stoves in use, 100.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, T. H., 100 (2,000 c. p.) arcs capac.
 Incandescent system, T. H., West'se, 7,000 lamps capacity.
 Power generators, 200 kw. capacity.
 No. public arcs, 70; hours lighted, 3,800.
 No. public incand., 110; hours lighted, 4,000.
 Price arc, Public, per year, \$75.
 Price incand., Public, per year (25 c. p.) \$20.
 Price arc, Commercial, per mo., \$5.33 to \$6.25.

Price incand., Commercial, per month, [16 c. p., 51c. to 70c.; per kw-h., 15c.
 Power used, Steam and Water.
 Cost boiler fuel per ton, \$2.70.

Du Quoin Light, Heat and Power Co., Du Quoin.

Capital stock, \$50,000.
 Bonds, \$40,000; due 1909; interest, 6 p. c.
 President, J. M. Browning.
 Secretary, L. W. Brookings.
 Treasurer, L. D. Skinner.
 Manager, L. D. Skinner.
 Superintendent, R. J. Milligan.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,300. No. meters, 400.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$1.50; net \$1.40.
 Fuel, gross \$1.25; net \$1.20.
 Power, \$1; churches, 75 cents.
 No. public lamps, 269. Price per yr., \$15.25.
 Consumption per burner per hour, 6 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 2,220.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, about 100.

East St. Louis Gas Light Co., East St. Louis.

Capital stock, \$1,000,000.
 President Beman G. Dawes.
 Secretary, H. C. Wood.
 Treasurer, Rufus C. Dawes.
 Pur. agent and mgr., F. K. Lane.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 30,000. No. meters, 1,900.
 Miles of mains, approximate, 27.
 Price gas, 1903: Light and Fuel, gross \$1.40; net \$1.10.
 Annual output, approx., 60,000,000 c. f.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, 1,000.

Elgin American Gas Co., Elgin.

Capital stock, \$100,000.
 Bonds, \$75,000; due 1917; interest, 6 p. c.
 \$230,000; due 1950; interest 5 p. c.
 President, Morris W. Stroud.
 Secretary, R. L. Babcock.
 Treasurer, Morris W. Stroud.
 Gen. sup. and pur. agt., S. P. Curtis, Phila. Pa.
 Superintendent, C. H. Dunbar.
 Process manufacture, Coal.
 Pop. dist. supplied, 24,000. No. meters, 3,260.
 Miles of mains, approximate, 51.
 Price gas, 1902: Light and Fuel, gross \$1.15; net \$1.05.
 Annual output, approx., 105,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 2,100.

Northwestern Gas Light and Coke Co., Evanston.
 (Consolidated with Cicero Gas Co., Oak Park.)
 Capital stock, \$4,175,000.

"The fact that the number of lamps in Worcester has been increased and the contract recommended by a unanimous vote of the City Council, is perhaps a sufficient answer to the inquiry if the service is satisfactory to the citizens of Worcester."

See advertisement, page xx.

HENRY A. KNIGHT, Superintendent of Street Lights.

Bonds, \$1,202,000; due, 1928; int. 5 p. c.
 \$250,000, due 1915, 6 p. c.; \$500,000, due
 1922, 6 p. c.; \$1,770,000, due 1932, 5 p. c.
 President, N. A. McClary.
 Vice-president, W. P. Martin.
 Secretary and mgr., E. J. H. Wright.
 Treasurer, T. M. Jackson.
 Asst. sec'y and treas., R. H. McColl.
 Process manufacture, Coal, Rew, and Lowe.
 Pop. dist. supplied, 75,000. No. meters, 12,000.
 Miles of mains, approximate, 211.
 Price gas, 1902: Light and Fuel, gross, \$1.10;
 net \$1.
 No. public lamps, 1901, 300.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 8,107.
 Supplies Wilmette, Grass Point, Oak Park
 and Kenilworth.

Freeport Gas Light and Coke Co., Freeport.

Capital stock, \$100,000.
 Bonds outstanding, \$36,000; interest, 5 p. c.
 President, Chas. D. Knowlton.
 Secretary and mgr., Z. T. F. Runner.
 Treasurer, Wm. O. Wright.
 Purchasing agent, Z. T. F. Runner.
 Superintendent, A. E. Green.
 Process manufacture, Coal.
 Pop. dist. supplied, 17,000. No. meters, 1,714.
 Miles of mains, approximate, 24.
 Price gas, 1903: Light and Fuel, gross \$1.25;
 net \$1.15.
 No. public Welsbachs, 37.
 Annual output, approx., 42,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 45 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 1,144.
 Supplies Freeport.

Galena Gas Light Co., Galena.

Capital stock, \$30,000.
 President, J. B. Howard.
 Sec'y and treas., J. B. Howard, Jr.
 Purchasing agent, J. B. Howard.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,000.
 Price gas, 1903: Light and Fuel, \$2.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 1.4 in.

Galesburg Gas and Electric Light Co., Galesburg.

Capital stock, \$350,000.
 Bonds, \$325,000; due 1915; interest, 5 p. c.
 President, Geo. F. Duncan, Portland, Me.
 Secretary, Edward Woodman, Portland, Me.
 Treasurer, Edward Woodman.
 Superintendent, F. C. Duncan.
 Process manufacture, Coal and Springer.
 Pop. dist. supplied, 18,700. No. meters, 1,867.
 Miles of mains approximate, 33.5.
 Price gas, 1903: Light and Fuel, gross \$2; net
 \$1; average, \$1.13.
 Annual output, 58,000,000 c. f.
 Candle-power, 18.5.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 400.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 200 (2,000 c. p.) arcs capacity.
 Incandescent system, Gen. Elec., alt. mono-
 cyclic, 20,000 lamps capac.
 Power generators, 125 kw. capac.
 Price arc, Commercial, per month, \$5 on 6
 o'cl. circuit; \$6 on 9 o'cl., and \$7 on 11 o'cl.
 Price incand., Com'l, per kw-h., 20c.; amp-h.,
 1c.; disc. from 25 p. c. under \$10 to 50 p. c.
 for over \$40 per mo.
 Power used, Steam.
 Cost coal, slack, \$1.30.; run of mine, \$2.50.

Galva Gas Light and Coke Co., Galva.

Capital stock, pref. \$20,000; com. \$10,000.
 President, P. Herdien.
 Secretary, H. C. Bailey.
 Treasurer, A. F. Deem.
 Purchasing agent, H. C. Bailey.
 Superintendent, H. C. Bailey.
 Process manufacture, Coal.
 Pop. dist. supplied, 3,000. No. meters, 200.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$2.50; net \$1.60
 to \$2. Fuel, net \$1.50.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.6 in.
 Gas stoves in use, 90.
 (Streets lighted by municipal electric plant.)

Geneseo Gas Co., Geneseo.

Capital stock, \$15,000.
 President, C. M. Gorham.
 Secretary, J. E. Gorham.
 Treasurer, F. E. Gorham.
 Superintendent, Wm. Hoeft.
 Process manuf., Oil (practical).
 Pop. dist. supplied, 4,000. No. meters, 165.
 Miles of mains, approximate, 7.
 Price gas, 1903: per 1,000 c. f., \$1.50.
 Annual output, approximate, 5,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 7.5 oz.
 Gas stoves in use, 95.
 Supplies Geneseo.

Jacksonville Gas Light and Coke Co., Jacksonville.

Capital stock, \$200,000.
 Bonds, \$182,000; due 1931; interest, 5 p. c.
 President, Frank Elliott.
 Secretary, F. M. Doan.
 Treasurer, John A. Bellatti.
 Purchasing agent, J. P. Doan.
 Superintendent, F. M. Doan.
 Assistant superintendent, J. P. Doan.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 15,000. No. meters, 1,600.
 Miles of mains, approximate, 20.
 Price gas, 1903: Light and Fuel, gross \$1.50;
 net \$1 to \$1.20.
 Annual output, approx., 36,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, 1,100.

THE INCREASED CANDLE POWER of the Improved **Welsbach** Street Light is all utilized because it is distributed horizontally and below the horizontal plane in every direction. See advertisement, page xx.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Incand. system, Gen. Elec., 8,000 lamps capac.
Power generators, 190 kw. capacity.
Price arc, Com'l, per mo., \$6.50 to \$7.
Price incand., Com'l, per kw-h., gross 20c.,
disc. 25 to 50 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$2.05.

Joliet Gas Light Co., Joliet.

Capital stock, \$300,000; annual div., 6 p. c.
Bonds, \$535,000; due 1942; interest, 5 p. c.
President, W. W. Tracy.
Secretary, Fred. Bennitt.
Treasurer and gen. mgr., I. C. Copley.
Supt. and pur. agent, James W. Murdock.
Engineer, P. O'Malley.
Process manufacture, Coal and Springer.
Pop. dist. supplied, 43,000. No. meters, 4,280.
Miles of mains, approximate, 66.
Price gas, 1903: Light and Fuel, gross \$1.25.
net \$1.20.
Annual output, approx., 130,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 45 p. c.
Lowest pressure for gas stoves, 2.8 in.
Gas stoves in use, 3,500.
Supplies Joliet.

Citizens Gas Co., Kankakee.

Capital stock, \$150,000.
Bonds outstanding, \$150,000; int., 5 p. c.
President, Wm. B. Hord.
Secretary, Victor Cumberson.
Treasurer, C. F. Street.
Purchasing agent, E. L. Street.
Superintendent, A. C. Swain.
Process manufacture, Coal.
Pop. dist. supplied, 15,000. No. meters, 912.
Miles of mains, approximate, 14.
Price gas, 1903: Light and Fuel, gross and
net \$1.20.
Annual output, approx., 22,000,000 c. f.
Candle-power, 20.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 650.

Kewanee Light and Power Co., Kewanee.

Capital stock, \$100,000; annual div., 6 p. c.
Bonds, \$100,000; due 1918; interest, 6 p. c.
President, Xenophon Caverno.
Secretary, James K. Blish.
Treasurer, B. C. Parkinson.
Purchasing agent, B. C. Parkinson.
Superintendent, E. W. Smith.
Process manufacturer, Springer.
Pop. dist. supplied, 12,000. No. meters, 780.
Miles of mains, approximate, 25.
Price gas, 1903: Light and Fuel, gross \$1.50;
net \$1.40.
No. public Welsbach lamps, 70. Lighted
2,500 hours.
Annual output, approx., 15,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, about 450.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
gas company.)
Arc and incand. systems, Edison, 300-kw.
capacity.
No. public arcs, 70; hours lighted, 2,500.
No. public incand., 71, hours lighted, 2,500.
Price arc, Public, per year, \$67.50.
Price, incand., Public, per year, 50 c. p., \$20.
Price incand., Com'l, per kw.-gross, 15c.;
disc., 10 to 60 p. c.
Power used, Steam.
Cost boiler fuel per ton, (screenings) \$1.35.

La Grange Gas Co., La Grange.

Capital stock, \$100,000.
Bonds outstanding, \$200,000.
President, I. C. Copley.
Secretary, Roys N. Strohn.
Treasurer and pur. agent, Roys N. Strohn.
Engineer, P. O'Malley.
Process manufacture, Coal.
Pop. dist. supplied, 11,000. No. meters, 1,540.
Miles of mains, approximate, 44.
Price gas, 1903: Gross \$1.05; net \$1.
Annual output, approx., 52,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 88 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 1,425.
Supplies La Grange, La Grange Park Grass-
dale, Western Springs, Hillside, Down-
ers Grove and Wheaton.

Citizens Lighting Co., La Salle.

Capital stock, \$130,000.
Bonds, \$104,000; due 1920; interest, 6 p. c.
President, Geo. F. Duncan.
Secretary, W. B. McKinley.
Treasurer, Edward Woodman.
Manager and pur. agent, F. W. Bedard.
Process manufacture, Coal.
Pop. dist. supplied, 5,000. No. meters, 800.
Miles of mains, approximate, 14.
Price gas, 1903: Light and Fuel, gross \$150;
net \$1.25.
Annual output, approx., 16,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 2.2 in.
Gas stoves in use, 250.
Cities supplied: La Salle and Peru.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, W. Elec., 110 arcs capacity.
Incand. system, W. Elec., 4,000 lamps capac.
Price arc, Commercial, per month, \$4.50
(1,200 c. p.)
Price incand., Com'l, per month, 16 c. p., 30c.
per kw., 15c.; disc., 15 to 45 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$1.25.

City of Lincoln Gas Co., Lincoln.

Capital stock, \$100,000.
Bonds outstanding, \$95,000; interest, 6 p. c.
President, Ruben H. Donnelley.
Secy. and treas., Joseph H. Vail.

Extract from report of Department of Public Works, New York City:

"I was very much surprised during a recent visit to Paris to discover that the **Welsbach** had superseded electricity on all the grand avenues, especially the Champs Elysees."

See advertisement, page xx.

CHAS. H. T. COLLIS, Commissioner.

Supt. and pur. agt., H. L. Olds.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 1,000.
 Miles of mains, approximate, 16.
 Price gas, 1903: Gross \$1.50; light, net \$1.40.
 Fuel, gross, \$1.50; net \$1.25.
 Annual output, approx., 21,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2.2 in.

Litchfield Gas and Electric Co., Litchfield.

Capital stock, \$50,000.
 Bonds, \$50,000; due 1911; interest, 6 p. c.
 President, Rob't M. Foster.
 Sec'y and pur. agent, David Davis.
 Process manufacture, Kendall (oil).
 Pop. dist. supplied, 7,000. No. meters, 350.
 Miles of mains, approximate, 7.5.
 Price gas, 1903: Light, gross and net, \$2.
 Fuel, gross and net, \$1.50.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 4 in.
 Gas stoves in use, 150.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 120 (2,000 c. p.) arcs capac.
 Incand. system, Warren, 1,600 lamps capac.
 No. public arcs, 68. Hours lighted, 4,000.
 Price arc, Commercial, per month, \$5 to \$9.
 Price incand., Commercial, per kw-h., 15c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.

Lockport Gas Co., Lockport.

(New company, commenced business February 1904.)

Proprietors: J. F. Sloan and John D. Meenan.
 Purchasing agent, John F. Sloan.
 Process manufacture Oil (Practical).
 Pop. dist. supplied, 5,000.
 Miles of mains, approximate, 3.5.
 Price gas, per 1,000 c. f., \$1.25.
 Supplies Lockport.

Macomb Electric Light and Gas Co., Macomb.

Capital stock, \$50,000.
 President, J. W. McIntosh.
 Secretary, H. W. Cummings.
 Treasurer, B. F. McLean.
 Purchasing agent, F. S. Armstrong.
 Superintendent, F. S. Armstrong.
 Process manufacture, Lowe.
 Pop. dist. supplied, 7,500. No. meters, 575.
 Miles of mains, 12.
 Price gas, 1903: Light, gross \$1.50; net \$1.25.
 Fuel, gross \$1.50; net \$1.
 No. public lamps, 126. Price per year, \$18.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 2,400.
 Annual output, approx., 15,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 425.
 Supplies Macomb.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 50 (1,200 c. p.) arcs capac.
 Incand. system, Gen. Elec., 1,200 lamps capac.
 No. public arcs, 4 (2,000 c. p.); 14 (1,200 c. p.);
 hours lighted, 2,200.
 Price arc, Public, per year, (1,200 c. p.) \$72;
 (2,000 c. p.) \$96.
 Price arc, Commercial, per month, \$6.
 Price incandescent, Commercial, per month,
 16 c. p., 50c. to \$1.
 Price per kw., gross, 20c.; disc. 25 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.55.

Mattoon Gas Light and Coke Co., Mattoon.

Capital stock, \$75,000.
 Bonds, \$65,000; due 1922; interest, 5 p. c.
 President, E. A. Potter.
 Secretary, M. E. Sampsel.
 Treasurer, A. M. Hart.
 Purchasing agent, E. A. Potter.
 Process manufacture, Lowe and Coal.
 Pop. dist. supplied, 10,000. No. meters, 750.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light and Fuel, gross \$1.50;
 net \$1.35.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use about, 500.

Mendota Gas Co., Mendota.

Value of investment, \$25,000.
 President, M. A. McKey.
 Secretary, Harry Blanchard.
 Superintendent, Harry Blanchard.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 300.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light and fuel, \$1.25.
 Annual output, approx., 5,061,800 c. f.
 Candle-power, 16 to 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 100.
 Supplies Mendota.

Mendota Light and Heat Co., Mendota.

Capital stock, \$25,000.
 Bonds outstanding, \$10,000; interest, 5 p. c.
 President, Max John.
 Secretary, Ehart Schentz.
 Treasurer, Geo. H. Madden.
 Purchasing agent, Chas. F. Lathrop.
 Superintendent, Chas. F. Lathrop.
 Process manufacture, Coal and Sutherland.
 Pop. dist. supplied, 5,000. No. meters, 325.
 Price gas, 1903: Light and Fuel, net \$1.25.
 Annual output, approx., 3,300,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2.8 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 25 (2,000 c. p.) arcs capacity.
 Incand. system, West's, 1,200 lamps capac.

The **Welsbach** STREET LIGHT is now extensively used on many of the principal streets of New York City. See advertisement, page xx.

No. public arcs (2,000 c. p.), 20; hours lighted, 1,725.
 No. public incandescents (16 c. p.), 120.
 Price arc, Public, per year (2,000 c. p.) \$120; (1,200 c. p.) \$84.
 Price arc, Commercial, per month (2,000 c. p.) \$5.50; (1,200 c. p.), \$5.
 Price incandescent, Public, per year, \$18.
 Price incand., Com'l, per kw-h., 12.5c. to 20c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.30.

Peoples Power Co., Moline.

Capital stock, \$600,000.
 Bonds outstanding, \$275,000; interest, 6 p. c.
 President, C. O. Nason.
 Secretary, S. S. Davis.
 Treasurer, W. L. Velie.
 Purchasing agent, C. E. Sharpe.
 Supt., electric, F. W. Reimers.
 Supt. gas, C. E. Sharpe.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 40,000. No. meters, 2,500.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 61,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 (Supplies Moline and Rock Island.)

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Brush and Sperry, 550 (2,000 c. p.) arcs capacity.
 Incand. system, Stanley and West's, 45,000 lamps capacity.
 Power generators, 1,500 kw.
 No. public arcs, 425; hours lighted, 3,800.
 Price arc, Public, per year, \$65.
 Price arc, Commercial, per month, \$5 to \$8.
 Price incand., Com'l, per kw., gross 20c.; net 4c. to 12c.
 Power used, Water and Steam.
 Cost boiler fuel per ton, \$1.60 to \$2.65.

Monmouth Gas Co., Monmouth.

Capital stock, \$30,000.
 Bonds, \$20,000; due 1914; interest, 6 p. c.
 President, Wm. P. Foster.
 Secretary, F. S. Spencer.
 Treasurer, F. S. Spencer.
 Purchasing agent, F. S. Spencer.
 Superintendent, F. S. Spencer.
 Process manufacture, Lowe.
 Pop. dist. supplied, 6,000. No. meters, 900.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light, gross and net \$1.50.
 Fuel, gross and net \$1.25.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 45 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, approx., 325.
 Supplies Monmouth.

Morris Gas and Fuel Co., Morris.

Capital stock, \$24,000.
 President, E. L. Clover.

Secretary, J. H. Pattison.
 Treasurer, Ole Erickson.
 Superintendent, J. H. Rogers.
 Process manufacture, Springer.
 Pop. dist. supplied, 5,000. No. meters, 175.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross and net \$1.75.
 Fuel, gross and net \$1.50.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 3 in.

Citizens' Gas, Electric and Heating Co., Mt. Vernon.

Capital stock, \$200,000.
 Bonds, \$175,000; interest 5 p. c.
 President, W. H. Schott.
 Secy. and treas., H. R. Kingman.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 400.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$1.50; net \$1.35.
 Fuel, gross \$1.10; net \$1.
 Annual output, approximate, 10,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 90 p. c.
 Gas stoves in use, 360.
 Supplies Mt. Vernon.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Western Electric, 60 (2,000 c. p.) arcs capacity.
 Incand. system, 3,000 lamps capacity.
 Power generators, 175 kw. capacity.
 No. public arcs, 60; lighted all and every night.
 Price arc, Public, per year, \$65.
 Price incand., residences, per kw. 15c.; Commercial, per kw. 10c.; disc. 20 p. c.
 Power used, steam.
 Cost boiler coal per ton, \$1.

Murphysboro Water Works, Electric and Gas Light Co., Murphysboro.

Capital stock, \$160,000; annual div., 5 p. c.
 Bonds \$150,000; due 1928; interest, 5 p. c.
 President, W. K. Murphy.
 Vice-president, Jos. VanClooaster.
 Secretary and treasurer, Willard Wall.
 Purchasing agent, W. C. Alexander.
 Superintendent, W. C. Alexander.
 Process manufacture, Lowe.
 Pop. dist. supplied, 8,000. No. meters, 175.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.25.
 No. public lamps, 4. Price per year, \$20.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamps lighted, 3,650.
 Annual output, approx., 3,350,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 5 in.
 Gas stoves in use, 16.

Extract from report of Brooklyn Parks:

"The **Welsbach** Lights are better adapted for Park Roads, being closer to the ground and free from shadows, and giving a clear, straight, white light." See advertisement, page xx.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Ft. Wayne, 55 arcs capacity.
 Incand. system, Ft. Wayne, 1,500 lamps capacity.
 Power generators, 70 kw. capacity.
 No. public arcs, 50; lighted 9 hours.
 No. public incand., 1,400; lighted 10 hours.
 Price arc, Public, per year (2,000 c. p.), \$144.
 Price arc, Com'l., per month (2,000 c. p.), \$12.
 Price incand., Public and Com'l., per mo., 60c. to \$1.20.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.35.

Northwestern Gas and Coke Co., Oak Park.

(See Evanston.)

Ottawa Gas Light and Coke Co., Ottawa.

Capital stock, \$100,000.
 Bonds outstanding, \$100,000; interest 5 p. c.
 President, M. T. Maloney.
 Secretary, James Maloney.
 Treasurer, M. T. Maloney.
 Purchasing agent and supt., J. F. Pullen.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 1,010.
 Miles of mains, approximate, 26.
 Price gas, 1903: Light and fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 26,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 2 in.
 Supplies Ottawa.

Paris Gas Light and Coke Co., Paris.

(Receiver applied for. Data below for 1902.)

Capital stock, \$50,000.
 President, Z. E. Powell.
 Secretary, C. L. Powell.
 Treasurer, C. L. Powell.
 Purchasing agent, John S. Black.
 Superintendent, John S. Black.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 400.
 Miles of mains, approximate, 13.
 Price gas, 1902: Light, gross \$2; net \$1.50.
 Fuel, \$1.50.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2.5 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Edison, 48 (2,000 c. p.) arcs capac.
 Incand. system, Edison, 3,500 lamps capac.
 Price arc, Commercial, per mo. (2,000 c. p.) \$5.
 Price inc., Com'l., per mo., 85c., 75c., 60c., 40c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.80 to \$3.75.

(The Yaryan hot water system of heating has also been in operation since Nov. 15, 1900, with 200 consumers along 7 miles of hot-water main. Three pumps, 2,300 gals. per minute capac. are used and three condensers of 500 ft. each.

Citizens Gas and Electric Co., Pekin.

Capital stock, \$200,000.
 Bonds, \$204,000; due 1922; interest, 5 p. c.
 President, H. G. Herget.
 Secretary and treas., William P. Herget.
 Purchasing agent, H. G. Herget.
 Superintendent, R. L. Fair.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 650.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light and fuel, gross \$1.35; net \$1.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 400.
 Supplies Pekin.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Western Elec. and Ft. Wayne 230 (2,000c. p.) arcs capacity.
 Incand system, Ft. Wayne, 5,000 lamps capac.
 Power generators, 375 kw., capac.
 No. public arcs, 117. Hours lighted, 3,500.
 No. public incand., 18. Lighted 4,300 hours.
 Price arc, Public, per year, \$65.
 Price arc, Commercial, per mo., \$5.50 to \$6.
 Price incand., Public, per year, \$18 (32 c. p.).
 Price incand., Com'l., per kw-h., 11c. to 8c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.36 and 91.5c.

Peoria Gas and Electric Co., Peoria.

(Absorbed business of Peoria Gas Light and Coke Company.)

Capital stock, \$2,500,000.
 Bonds, \$2,000,000; due, 1923; int., 5 p. c.
 President, Sumner R. Clarke.
 Vice-president, F. W. Little.
 Secretary, Theo. J. Miller.
 Treasurer, Lyman A. Walton.
 Gen. mgr. and pur. agt., F. W. Little.
 Superintendent, E. W. Eustace.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 65,000. No. meters, 7,259.
 Miles of mains, approximate, 105.
 Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
 Annual output, approx., 176,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 6,000.
 Supplies Peoria, So. Peoria, E. Peoria and Averyville.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc syst., Gen. Elec., 1,700 (2,000 c. p.) arcs cap.
 Incand. syst., Gen. Elec., 75,000 lamps capac.
 Power generators, 500 kw.
 No. public arcs, 690; hours lighted, 4,000.
 Price arc, Public, per year \$65.
 Price incand., Commercial, per kw-h., 10c.
 Power used, Steam.
 Cost boiler coal per ton, \$1.55.

The "Candle Power" given by the IMPROVED **Welsbach STREET LIGHT** is more efficient for street illuminations than that obtained by any other means. See advertisement, page xx.

Peoria Gas Light and Coke Co., Peoria.

(Business and plant transferred to the Peoria Gas and Electric Company.)

Pontiac Light and Water Co., Pontiac.

Capital stock, \$140,000.
Bonds, \$125,000; due 1927; interest, 5 p. c.
President, James A. Carothers.
Secretary, Wm. H. Hessin.
Treas. and pur. agent, James A. Carothers.
Superintendent, Fred. L. Lucas.
Process manufacture, Coal.
Pop. dist. supplied, 7,000. No. meters, 210.
Miles of mains, approximate, 6.
Price gas, 1903: Light and fuel, \$1.25.
Proportion sold for fuel purposes, 80 p. c.
Gas stoves in use, 200.
Supplies Pontiac.
(Also owns water-works and heating plant.)

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company).

Arc system, Gen. Elec., 60 (2,000 c. p.) arcs capac.
Incand. sys., Gen'l Elec., 8,000 lamps capac.
Power generators, 150 kw. capacity.
No. public arcs, 55; hours lighted, 4,000.
No. public incand., 60; hours lighted, 4,000.
Price arc, public, per year, \$72.
Price incand., public, per year, (32 c. p.) \$15.
Price arc and incand. Com., per kw., gross, 10c.
Power used, Steam.
Cost boil coal per ton \$1.50.

Princeton Gas Works, Princeton.

(Private ownership.)
Owner, Hazen S. Capron.
Purchasing agent, Hazen S. Capron.
Superintendent, A. P. Smyth.
Process manufacture, Coal.
Pop. dist. supplied, 5,000. No. meters, 440.
Miles of mains, approximate, 10.
Price gas, 1903: Light, gross \$1.75; net \$1.65.
Fuel, gross \$1.75; net \$1.50.
Annual output, approx., 8,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, 300.
Supplies Princeton.

Peoples Gas Light and Coke Co. of Chicago, Pullman.

(Supplied from Grand Crossing Works.)

Quincy Gas and Electric Co., Quincy.

Capital stock, \$600,000.
Bonds, \$600,000; due 1919; interest, 5 p. c.
President, J. Manchester Haynes.
Secretary, Geo. E. Macomber.
Treasurer, Geo. E. Macomber.
Gen. mgr. and pur. agt., W. A. Bixby.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 40,000. No. meters, 4,100.
Miles of mains, approximate, 40.
Price gas, 1903: Light, gross \$1.50; net \$1.35.
Fuel, gross \$1.25; net \$1.
Annual output, approx., 72,000,000 c. f.
Candle-power, 20.

Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 2.2 in.
Gas stoves in use, 1,600.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, T. H., 350 (2,000 c. p.) arcs capac.
Incand. system, Gen. Elec., 20,000 lamps capacity.
Power generators, 450 kw. capacity.
No. public arcs, 337; lighted by moon scale.
Price arc, Public, per year, \$54.50.
Price incand., Com'l, per kw-h., 5c.
Power used, Steam.
Cost boiler fuel per ton, \$1.25 to \$3.25.

Rockford Gas Light and Coke Co., Rockford.

Capital stock, \$300,000.
Bonds \$52,000; due 1910; interest, 6 p. c.; \$458,000; due 1950; interest 5 p. c.
President, Morris W. Stroud.
Secretary, R. L. Babcock.
Treasurer, Morris W. Stroud.
Gen. supt. and pur. agt., S. P. Curtis, Philadelphia, Pa.
Superintendent, Henry S. Whipple.
Process manufacture, Coal.
Pop. dist. supplied, 35,000. No. meters, 3,511.
Miles of mains, approximate, 72.
Price gas, 1903: Light and Fuel, gross \$1.25; net \$1.15.
Annual output, approx., 91,500,000 c. f.
Candle-power, 17.
Proportion sold for fuel purposes, 44 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, 3,200.

Peoples Power Co., Rock Island.

(See Moline, Ill.)

Springfield Gas Light Co., Springfield.

Capital stock, \$150,000.
Bonds, \$150,000; due 1953; Interest 5 p. c.
President, H. D. Walbridge.
Secretary, G. L. Estabrook.
Treasurer, G. L. Estabrook.
Purchasing agent, Emil G. Schmidt.
Gen'l manager, Emil G. Schmidt.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 38,000. No. meters, 4,200.
Price gas, 1903: Light and Fuel, gross \$1.20; net \$1.
Annual output, approx., 118,000,000 c. f.
Candle-power, 16.
Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 2.8 in.
Supplies Springfield.

Sterling Gas and Electric Light Co., Sterling.

Capital stock, \$250,000.
Bonds \$172,000; due 1927; interest, 5 p. c.
President, Alfred H. Gross.
Vice-pres. and pur. agt., Edward E. Morrill.
Secretary, Nelson A. McClary.
Treasurer, Irvin Rew.
Manager, Elmer Crawford.
Process manufacture, Coal.
Pop. dist. supplied, 11,000. No. meters, 1,200.

Extract from report of the Chief Engineer of Fairmount Park, Philadelphia, in regard to Welsbach Park Lights: "The **Welsbach** Lights with which you are now lighting the great pleasure ground of the city of Philadelphia are giving great satisfaction, adding greatly to the attractiveness of the Park."

See advertisement, page xx.

Miles of mains, approximate, 11.
 Price gas, 1903: Light and Fuel, gross \$1.35;
 net \$1.25.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 950.
 Supplies Sterling and Rock Falls.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, West'se, 60 (2,000 c. p.) arcs capac.
 Incand. system, West'se, 6,000 lamps capac.
 No. public arcs, 10; lighted all and every night.
 No. public incandescents, 220. Moon scale.
 Price arc, Public, per year, \$80.
 Price incandescent, Public, per year (25 c. p.)
 \$16; per kw-h., 15c.
 Price arc, Commercial, per month, \$6.50.
 Price, incand., Com'l, per kw-h., 20c.
 Power used, Steam and Water.
 Cost boiler fuel per ton, \$2.75.

Streator Gas and Light Co., Streator.

Capital stock, \$100,000.
 Bonds, \$60,000; due 1913; interest, 6 p. c.
 President, Aaron K. Stiles.
 Secretary, Everell D. Stiles.
 Treas. and pur. agent, Everell D. Stiles.
 Superintendent, Aaron K. Stiles.
 Process manufacture, Coal.
 Pop. dist. supplied, 16,000. No. meters, 1,550.
 Miles of mains, approximate, 28.
 Price gas, 1903: Light and Fuel, gross \$2.
 net \$1.50.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 650.
 Supplies Streator.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Brush, 125 (2,000 c. p.) arcs capac.
 Incand. system, Ft. Wayne, 5,000 lamps capac.
 Power generators, 50 kw. capac.

No. public arcs, (2,000 c. p.) 103; lighted 4,000
 hours.
 Price arc, Public, per year, \$82.50.
 Price arc, Commercial, per month, \$5 and \$7.
 Price incand., Commercial, per mo., 16 c. p.,
 75c. to 11 P. M.; \$1 all night; 32 c. p., \$1.25;
 per kw-h., 10c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.80.

Citizens Gas Light and Fuel Co., Taylorville.

Capital stock, \$15,000.
 Bonds, \$10,000; due 1911; interest, 5 p. c.
 President, G. F. Shumway.
 Vice-president and treas., D. D. Shumway.
 Secretary, W. A. Abell.
 Purchasing agent, G. F. Shumway.
 Superintendent, W. A. Abell.
 Process manufacture, Lowe and Kendal oil.
 Pop. dist. supplied, 5,000. No. meters 340.
 Miles of mains, approximate, 8.
 Price gas, 1903, \$1.55.
 Annual output, approx., 5,500,000 c. f.
 Candle-power, 24.
 Lowest pressure for gas stoves, 2.6 in.
 Gas stoves in use, 153.

North Shore Gas Co., Waukegan.

Capital stock, \$1,000,000.
 President, R. C. Dawes.
 Secretary, W. Irving Osborne.
 Treasurer, R. C. Dawes.
 Purchasing agent, G. F. Goodnow.
 General manager, G. F. Goodnow.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 19,000. No. meters, 2,500.
 Miles of mains, low pressure, 29; high pres-
 sure (10 to 30 pounds), 31 miles.
 Price gas, 1903: Light, gross \$1.25; net \$1.15.
 Fuel, gross \$1.25; net \$1.
 Public Welsbach lamps, 200.
 Annual output, approx., 80,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 70 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 1,800.
 (Supplies Waukegan, No. Chicago, Lake Bluff,
 Lake Forest, Fort Sheridan, Highland
 and Highland Park).

INDIANA.

Aurora Gas Light, Coal and Coke Co., Aurora.

Capital stock, author., \$50,000; issued, \$30,000.
 President, Seth Stedman.
 Secretary, J. C. Small.
 Treasurer, J. C. Small.
 Purchasing agent, J. C. Small.
 Superintendent, J. C. Small.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,000. No. meters, 325.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light and Fuel, gross \$1.35;
 net \$1.25.
 Annual output, approx., 10,500,000 c. f.
 Candle-power, 20.

Proportion sold for fuel purposes, 70 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, 125.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
 gas company.)
 Arc system, Ft. Wayne, 90 (1,200 c. p.) arcs
 capacity.
 No. public arcs, 60; hours lighted, 2,100.
 Price arc, Public, per year, \$63.
 Price arc, Commercial, per month, \$5.
 Power used, Gas Engine.

Welsbach System of Street Lighting

Bedford Light, Heat and Power Co., Bedford.

Capital stock, pref. \$30,000; com. \$70,000.
 Bonds \$75,000; due, 30 years; interest, 5 p. c.
 President, A. C. Voris.
 Secretary, J. R. Voris.
 Treasurer, M. N. Messick.
 Purchasing agent, J. R. Voris.
 Superintendent, I. J. Bell.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,000. No. meters, 209.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light and Fuel, net, \$1.06.5.
 Annual output, approximate, 3,294,100 c. f.
 Proportion sold for fuel purposes, 60 p. c.
 Gas stoves in use, 155.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 100 (2,000 c. p.) arcs capac.
 Incand. system, Gen. Elec., 5,000 lamps capac.
 No. public arcs, 70; hours lighted, all night.
 Price arc, Public, per year, \$80.
 Price arc, Commercial, per month, \$4.50.
 Price incand., Com'l, per mo., 16 c. p., 50c.;
 kw-h., 15c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.95.
 (Company also has central station hot water
 heating plant, with 3 miles of mains,
 75,000 feet of radiation connected, at 15c.
 per foot.)

Peoples Gas, Electric and Heating Co., Bloomington.

Capital stock, pref., \$50,000; (annual div.,
 6 p. c.); com., \$100,000.
 Bonds, \$148,000; due 1930; interest 5 p. c.
 President, W. H. Schott.
 Vice-pres. and Gen'l mgr., C. L. Gerould.
 Secretary, A. E. Duram.
 Treasurer, W. L. Schomberg.
 Purchasing agent, Charles Gillham.
 Gen'l Superintendent, Charles Gillham.
 Process manufacture, Coal.
 Pop. dist. sup., 9,000. No. meters, 535.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light and Fuel, net \$1.
 Annual output, approx., 14,472,770 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 75 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 335.
 Supplies Bloomington.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Hartford.
 Incand. syst., alt., 6,000 lamps capac.
 No. pub. arcs, 76; hours lighted, 4,000.
 Price arc, Public, per year, \$80.
 Price incand., Commercial, per kw-h., 10c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.
 (Also operates hot water heating plant, 53,975
 square feet radiation installed.)

Brazil Gas Co., Brazil.

(Plant not yet completed; expect to supply
 gas August 1, 1904.)

Columbus Gas Light and Coke Co., Columbus.

Capital stock, \$50,000.
 President, Adam Keller.
 Secretary, C. M. Keller.
 Treasurer, F. P. Brockman.
 Purchasing agent, C. M. Keller.
 Superintendent, C. M. Keller.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 875.
 Miles of mains, approximate, 14.
 Price gas, 1903: Gross and net, Light, \$1.25;
 Fuel, \$1.
 Annual output, approx., 15,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 375.
 Supplies Columbus.

General Gas, Electric and Power Co., Connersville.

Capital stock, \$300,000.
 President, Geo. W. Griffith.
 Secretary, Lucia Payne.
 Treasurer, A. M. Alexander.
 Pur. agt. and supt., W. E. Lowe.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000. No. meters, 300.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, gross \$1.50; net \$1.35.
 No. public lamps, 3. Price, \$24.
 Consumption per burner per hour, 5 c. f.
 Lighted all night.
 Price includes repairs, care, lighting and
 extinguishing.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 16.

ELECTRICAL DEPARTMENT.

Arc system, Ft. Wayne and Gen. Elec., 125
 arcs capacity.
 Incand. system, Gen. Elec., 5,000 lamps capac.
 No. public arcs, 90; lighted all night.
 Price arc, Public, per year, \$75.
 Price incand., Com'l and Pub., per kw-h., 15c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.10.

Crawfordsville Water and Light Co., Crawfordsville.

Capital stock, \$225,000.
 Bonds outstanding, \$225,000; interest, 5 p. c.
 President, C. F. Street.
 Secretary, Sam'l C. Rowland.
 Treasurer, C. F. Street.
 Purchasing agent, Sam'l C. Rowland.
 Manager, Sam'l C. Rowland.
 Consulting engineer, Edgar L. Street.
 Process manufacture, Lowe (Moses).
 Pop. dist. supplied, 7,000. No. meters, 700.
 Miles of mains, approximate, 12.
 Price gas, 1903: Gross and net, Light, \$1.50
 Fuel, \$1.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 100.
 Supplies Crawfordsville.

"I would state that the **Welsbach** System of Street Lighting that was installed in this city in
 June, 1898, has proved entirely satisfactory to this Department."

(Signed) WILLIAM D. LANG, Superintendent of Lamps, Boston, Mass.

See advertisement, page xx.

Elkhart Gas Co., Elkhart.

(Successor to Elkhart Gas Light and Coke Co.)

Capital stock, \$300,000.

President, William Alden Smith.

Secretary, Frank Van Fliet.

Treasurer, George T. Murdock.

Purchasing agent, Geo. T. Murdock.

Superintendent, Geo. T. Murdock.

Process manf., Coal, Lowe, Rose-Hastings, Springer.

Pop. dist. supplied, 17,500. No. meters, 1,745.

Miles of mains, approx. 25.

Price gas, 1903: Light, gross, \$1.80; net \$1.20.

Fuel, gross, \$1.20 net, \$1.15.

Annual output, approx., 48,000,000 c. f.

Candle-power, 22.5.

Proportion sold for fuel purposes, 60 p. c.

Lowest pressure for gas stoves, 2.5 in.

Gas stoves in use, 1,158.

Supplies Elkhart.

Citizens Heat and Light Co., Elwood.

(See natural gas department. Expect to erect artificial gas plant.)

President, J. S. Watson.

Secretary, H. C. Carpenter.

Manager, E. C. Critchlow.

Superintendent, A. L. Hopper.

Evansville Gas and Electric Light Co., Evansville.

Capital stock, \$600,000.

Bonds, \$1,050,000; due 1932; interest, 5 p. c.

President, E. B. Lewis.

Secretary, W. B. McDonald.

Treasurer, James H. Foster.

Gen'l mgr. and pur. agent, W. B. McDonald.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 65,000. No. meters, 6,000.

Miles of mains, approximate, 57.

Price gas, 1903: Light and Fuel, \$1.

No. public lamps, 580. Inc. 478 Welsbachs.

Price open flame, per year, \$18.

Consumption per burner per hour, 3.5 c. f.

Price includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 4,000.

Annual output, approx., 160,000,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 40 p. c.

Lowest pressure for gas stoves, 1.8 in.

Gas stoves in use, 3,700.

Cities supplied: Evansville and Howell.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc syst., Gen'l Elec. 600 (2,000 c. p.) arcs capac.

Incand. system, Gen. Elec., 18,000 lamps capac.

Power generators, 330 kw. capac.

No. public arcs, 278; hours lighted, 4,000.

Price arc, Public, per year, \$60.

Price arc and incand., Com'l, per kw-h., 5c.

Doherty system of discounts.

Power used, Steam.

Cost boiler fuel per ton, \$1.

Ft. Wayne Gas Co., Ft. Wayne.

Capital stock, \$2,000,000.

Bonds, \$1,940,000; due 1925; interest, 6 p. c.

President, C. F. Dieterich.

Secretary, F. E. W. Scheimann.

Treasurer, A. B. Proal.

General manager, Henry C. Paul.

Superintendent, G. M. Hofmann.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 55,000. No. meters, 1,201.

Miles of mains, approximate, 21.

Price gas, 1903: Light, gross \$1.35; net \$1.25.

Annual output, approx., 36,200,000 c. f.

Candle-power, 24.

(Supplies also natural gas.)

Indiana Natural and Illuminating Gas Co., Frankfort.

(See natural gas department.)

Franklin Water, Light and Power Co., Franklin.

Capital stock, \$100,000.

Bonds, \$90,000; 6 p. c.; \$85,000; 5 p. c.; serial.

(Stock and bonds cover gas, electric and water plants.)

Vice-president, F. L. Harris.

Sec'y and treas., Jacob Hazlett.

Purchasing agent, W. S. Streeter.

Cashier, P. F. Morgan.

Superintendent, O. E. Frady.

Process manufacture, Coal.

Pop. dist. supplied, 6,000. No. meters, 250.

Miles of mains, approximate, 8.

Price gas, 1903: Net Light \$1.50. Fuel, \$1.

No. public Welsbach lamps, 10.

Annual output approx., 5,300,000 c. f.

Candle-power, 20.

Proportion sold for fuel purposes, 60 p. c.

Lowest pressure for gas stoves, 3 in.

Gas stoves in use, 130.

Supplies Franklin.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., Gen. Elec., 200 arcs capac.

Incand. system, Gen. Elec., 2,000 lamps capac.

No. public arcs, 89; lighted 4,015 hours.

Price arc, Public, per year, \$60 and \$75.

Price arc and incandescent, Commercial, per kw-h. 10c.

Power used, Steam.

Cost boiler fuel per ton, \$2.25.

Goshen Gas Co., Goshen.

Capital stock, \$60,000.

Bonds, \$60,000; due 1929; interest, 6 p. c.

President, James T. Lynn.

Secretary, A. L. Wilkinson.

Treasurer A. L. Wilkinson.

Purchasing agent, James T. Lynn.

Superintendent, G. G. Atkinson.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 10,000. No. meters, 1,200.

Miles of mains, approximate, 15.

Price gas, 1903: Light and Fuel, gross \$1.25; net \$1.20.

Annual output, approx., 20,000,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 50 p. c.

Greencastle Gas Co., Greencastle.

Capital stock, \$50,000.

President, James Green.

Treas. and sec'y, G. R. Blackford, St. Louis, Mo.

Purchasing agent, Robert Rawlinson.

THE IMPROVED **Welsbach** STREET LIGHTING FIXTURES furnish the perfection of street lighting outfits. See advertisement, page xx.

Superintendent, Robert Rawlinson.
Process manufacture, Coal.
Pop. dist. supplied, 3,500. No. meters, 155.
Miles of mains, approximate, 3.
Annual output, approx., 8,000,000 c. f.
Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 1.5 in.

South Shore Gas and Electric Co., Hammond.

(Successor to Hammond Illuminating Co.)
Capital stock, \$2,000,000.
Bonds, \$600,000.
President, C. H. Geist.
Treasurer, Rufus C. Dawes.
Pur. agent and manager, John P. Johnston.
Process manufacture, Coal and Water.
Pop. dist. supplied, 35,000. No. meters, 1,850.
Miles of mains, approximate, 37.
Price gas, 1903: Light, gross \$1.10; net \$1.
Fuel, net and gross \$1.
Annual capacity, approx., 100,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes 60 p. c.
Lowest pressure for gas stoves, 1.8
Gas stoves in use, 1,800.
Supplies Hammond, East Chicago, Whiting
and Indiana Harbor.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arcs capacity, 250 (2,000 c. p.)
Incand., 10,000 lamps capacity.
No. public arcs, 152; lighted all night.
Price arc, Public, per year, \$84.
Price arc, Com'l, per month, \$7.
Price incand., Public, per kw. gross, 13c.
Power used, Steam.
Cost, boiler fuel, per ton, \$1.50.

Huntington Light and Fuel Co., Huntington.

Capital stock, \$250,000.
Bonds outstanding, \$51,000; interest, 6 p. c.
(Above covers both manufactured and natural gas, the latter amounting to four-fifths of the business.)
President, J. F. Bippus.
Secretary, O. W. Whitelock.
Treasurer, F. E. Bowman.
Purchasing agent, George J. Bippus.
Superintendent, F. D. Townsend.
Process manufacture, Coal.
Pop. dist. supplied, 10,000.
Price gas, 1903: Light, net, \$1.50.
Annual output, approx., 7,000,000 c. f.
Candle-power, 18.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Incand. system, G. E., Ed., 2,350 lamps capac.
Price incand., per kw., 10c.
Power used, Steam and Gas Engine.

Indianapolis Gas Co., Indianapolis.

Capital stock, \$2,000,000.
Bonds, \$3,083,000; due, 1920; interest, 6 p. c.
President, F. S. Hastings.
Secretary, S. D. Pray.
Treasurer, Edward Beers.
Purchasing agent, John R. Pearson.

Manager, John R. Pearson.
Supt. manf. gas dept., James Somerville.
Process manf., Coal and Lowe.
Pop. dist. supplied, 225,000.
No. meters, 16,250.
Miles of mains approximate, 205.
Price gas, 1903: Light, net 90c.
Annual output approx., 425,000,000 c. f.
Candle-power, 19.
(Indianapolis Gas Co.'s natural gas department out of business.)

United Gas and Electric Co., Jeffersonville.

(See New Albany.)

Kokomo Gas Light and Coke Co., Kokomo.

Capital stock, \$35,000.
Bonds outstanding, \$28,000; interest, 7 p. c.
Secretary, W. H. Higgins.
Supt. and pur. agt., W. H. Higgins.
Process manufacture, Lowe-Granger.
Pop. dist. supplied, 16,000. No. meters, 425.
Miles of mains, approximate, 8.5.
Price gas, 1903: Light, gross \$1; net 90c.
Annual output, approx., 4,500,000 c. f.
Candle power, 16.

Lafayette Gas Co., Lafayette.

Capital stock, \$1,000,000.
Bonds outstanding, \$970,000; interest, 6 p. c.
(Above includes electric, artificial and natural gas plants of city.)
President, C. F. Dieterich.
Sec'y., gen. mgr. and puragt., S. T. Murdock.
Treasurer, A. B. Proal.
Superintendent, William Wallace.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 22,000.
Price gas, 1903: Light and Fuel, gross \$1.35; net \$1.25.
Annual output, approx., 65,000,000 c. f.
Candle-power, 22.
Natural gas used for fuel purposes.
Lowest pressure for gas stoves, 2.2 in.
Cities suppl'd: Lafayette and West Lafayette.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Ft. Wayne, 375 (1,200 c. p.) arcs capacity.
Incandescent system, Ft. Wayne, 4,500 lamps capacity.
No. public arcs, 314; hours lighted, 2,200.
Price arc, Public, per year, \$66.
Price arc, Commercial, per month, \$5.
Price incand., Com'l, per month, 16 c. p., 12 P. M., 40c.; all night, 50c.; per 16 c. p. lamp-hour, 0.5c.; per kw., 10c.
Power used, Steam.
Cost boiler fuel per ton, \$2.25.

La Porte Gas and Coke Co., La Porte.

Capital stock, \$100,000.
President, W. A. Martin.
Secretary, Ed. F. Michael.
Treasurer, Ed. F. Michael.
Purchasing agent, W. C. Miller.
Superintendent, W. C. Miller.
Gen'l. manager, W. A. Martin.

WELSBACH STREET LIGHTING COMPANY OF AMERICA:

GENTLEMEN: I am pleased to add my recommendation to your system of street lighting. From my experience of street lighting, particularly in cities where the streets abound in shade trees, I have found it vastly superior to electric lighting, and believe that it is the proper way for lighting all streets. (Signed) HENRY S. KEARNY, Commissioner City of New York, Department of Public Buildings, Lighting and Supplies.

See advertisement, page xx.

Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 900.
 Miles of mains, approximate, 13.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.35.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.6 in.
 Gas stoves in use, 450.
 Supplies La Porte.

Lawrenceburg Gas Co., Lawrenceburg.

Capital stock, \$28,600.
 President, Geo. M. Roberts.
 Secretary, S. P. Isherwood.
 Treasurer, Diana Isherwood.
 Purchasing agent, T. W. Isherwood.
 Superintendent, J. W. Isherwood.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 290.
 Miles of mains, approximate, 3.
 Price gas, 1903: Net, Light, \$1.50. Fuel, \$1.25.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 50.

Liberty Fuel and Gas Light Co., Liberty.

Capital stock, \$20,000.
 Bonds outstanding, \$5,000; interest, 6 p. c.
 President, George E. Coughlin.
 Secretary, J. B. Niccum.
 Treasurer, J. B. Niccum.
 Purchasing agent, J. B. Niccum.
 Superintendent, J. B. Niccum.
 Process manufacture, Oil.
 Pop. dist. supplied, 1,500. No. meters, 250.
 Miles of mains, approximate, about 15.
 Price gas, 1903: Light, net \$1.50.
 No. public lamps, 80. Price per year, \$14.
 Consumption per burner per hour, 4 c. f.
 Price does not include repairs, care and lighting.
 Lighted per year, average 5 hours per night, and 18 nights per month.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 22.

Logansport and Wabash Valley Gas Co., Logansport.

(Embraces artificial and natural gas plants of Logansport, Peru, Wabash and Decatur.)
 Capital stock, \$1,750,000.
 Bonds outstanding, \$1,720,000; interest, 6 p. c.
 President, Charles F. Dieterich.
 Secretary, S. T. Murdock.
 Treasurer, A. B. Proal.
 Gen'l mgr. and pur. agent, S. T. Murdock.
 Superintendent, W. E. Powell.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 18,000. No. meters, 760.
 Miles of mains, approximate, 29.
 Price gas, 1903: Light and Fuel, gross \$1.25; net, \$1.12.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel, 25 p. c.
 Lowest pressure for gas stoves, 2.3 in.
 Gas stoves in use, 300.

Supplies Logansport.
 (Natural gas discontinued at this point.)

Madison Lighting Co., Madison.

Capital stock, \$75,000.
 Bonds, \$108,000, int. 5 p. c.
 President, J. H. Brown.
 Secretary and treasurer, Geo. Mayer.
 Gen'l superintendent, R. S. Fuertado.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 720.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, gross \$1.65, net \$1.50.
 Fuel, gross \$1.10, net \$1.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 225.

Martinsville Light, Heat, Power and Water Co., Martinsville.

Capital stock, \$100,000.
 President, J. M. Blair.
 Vice-President, L. K. Davis.
 Secretary and Pur. agent, Clemens Blank.
 Treasurer, F. A. W. Davis.
 Pop. dist. supplied, 5,000. No. meters, 400.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, \$1.35. Fuel, \$1.
 Annual output, approx., 4,500,000 c. f.
 Candle-power, 20.
 Lowest pressure for gas stoves, 2.9.
 Proportion sold for fuel purposes, 30 p. c.
 Gas stoves in use, 119.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Incand. system, 25,000 lamps capacity.
 Power generators, 165 kw. capacity.
 Price incand., Commercial, per month, 50c., 40c. and 35c.; per kw. gross, 8c. and 10c.
 Power used, Steam.
 Cost boiler coal, per ton, \$2.10.

Michigan City and Northern Indiana Gas Co., Michigan City.

Capital stock, \$220,000.
 Bonds outstanding, \$175,000.
 President, C. H. Geist.
 Vice-president, R. C. Dawes.
 Treas. and gen. mgr., I. C. Elston, Jr.
 Superintendent, Robert H. Lawler.
 Process manufacture, Coal.
 Pop. dist. supplied, 18,000. No. meters, 2,150.
 Miles of mains, approximate, 22.
 Price gas, 1903: Gross \$1.10; net \$1.
 Annual output, approx., 54,000,000 c. f.
 Candle-power, 18.
 Proportion used for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,475.

United Gas and Electric Co., New Albany.

Consolidation of the Gas Light and Coke Co., The Light Heat and Power Co., The Jeffersonville Light and Water Co., and The Electric Light, Gas Heating and Coke Co.
 Capital stock, \$1,000,000.

THE WELSBACH STREET LIGHTING COMPANY OF AMERICA will furnish complete plants for the lighting of the streets of cities, the gas being furnished by the gas company. See advertisement, page xx.

Bonds, \$750,000; due 1929; interest, 5 p. c.
 President, Samuel Insull.
 Secretary and treasurer, R. W. Waite.
 Purchasing agent, R. W. Waite.
 Superintendent, Jas. W. Dunbar.
 Process manufacture, Coal.
 Pop. dist. supplied, 40,000. No. meters, 2,700.
 Miles of mains, approximate, 32.
 Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
 Annual output, approx., 45,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 1.2 in.
 Gas stoves in use, 2,150.
 Cities supplied: New Albany and Jeffersonville.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Ft. Wayne 620 (2,000 c. p.) arcs capacity.
 Incand. system, Stanley and National, 11,100. lamps capacity.
 Power generators, 850 kw. capacity.
 No. public arcs, 450 (2,000 c. p.); lighted 3,650 hours.
 Price arc, Public, per year \$58.20 and \$60.
 Price arc, Commercial, per month, (2,000 c. p.) \$6.
 Price incandescent, Commercial, per kw-h., 7c. to 15 c.; dis. 10 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.75.

Peru American Gas Co., Peru.

Capital stock, \$60,000.
 Bonds, \$60,000; due 1916; interest, 6 p. c.
 President, Morris W. Stroud.
 Secretary, R. L. Babcock.
 Treasurer, Morris W. Stroud.
 Purchasing agent, S. P. Curtis, Phila., Pa.
 General superintendent, S. P. Curtis.
 Superintendent, W. V. Spinning.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 630.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light, gross \$2; net \$1.50.
 Fuel, net \$1.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 18.5.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2.8 in.
 Gas stoves in use, 128.

Richmond Light, Heat and Power Co., Richmond.

Capital stock, \$300,000.
 Bonds, \$200,000; due 1914; interest, 5 p. c.
 President, Richard S. Storrs.
 Secretary, J. W. Roney.
 Treasurer, J. W. Roney.
 Manager, J. W. Roney.
 Pur. agents, E. E. Witherby and J. W. Roney.
 Superintendent, B. C. Fowles.
 Process manf., Lowe.
 Pop. dist. supplied, 22,000. No. meters, 1,300.
 Miles of mains, approximate, 24.
 Price gas, 1903: Light, gross \$1.50; net \$1.20.
 Annual output, approx., 25,000,000 c. f.

Candle-power, 27.
 (Natural gas competition).

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Ft. Wayne, 300 (2,000 c. p.) arcs capacity.
 Incand. system, Gen. Elec., Ft. Wayne, 8,000 lamps capac.
 No. public arcs, 186; lighted 4,000 hours.
 Price arc, Public, per year, \$90.
 Price arc, Commercial, per month, \$5 to \$8.
 Price incand., Com'l, per mo., 40c. to 50c.
 Domestic, 25c. to 40c.; disc. 20 p. c.
 Power used, Steam and natural gas.
 Cost boiler fuel per ton, \$2.70 and \$2.85.

Rushville Gas Light Co., Rushville.

Capital stock, \$28,000.
 Bonds outstanding, \$20,000.
 Partnership composed of Alfonso L. Riggs and Wm. E. Havens.
 Process manufacture, Oil.
 Pop. dist. supplied, 6,000. No. meters, 402.
 Miles of mains, approximate, 5.37.
 Price gas, 1903: Light, gross \$1.60; net \$1.50.
 Annual output, approx., 7,800,000 c. f.
 Candle-power, 22.
 Lowest pressure for gas stoves, 2.9 in.

Seymour Gas and Electric Light Co., Seymour.

Capital stock, \$75,000.
 Bonds, \$110,000; due 1920; interest, 6 p. c.
 President, J. H. Brown.
 Sec'y and treas., George Mayer.
 Superintendent, W. C. Bevins.
 Process manufacture, Lowe and Coal.
 Pop. dist. supplied, 7,500. No. meters, 700.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, net \$1.50. Fuel, \$1.25.
 Annual output, approx., 15,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 275.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Gen'l. Elec. 100 (2,000 c. p.) arcs capacity.
 Incand. system, Gen'l. Elec., 3,000 lamps capac.
 No. public arcs, 86; lighted 2,700 hours.
 Price arc, Public, per year, \$65.
 Price arc, Commercial, per month, \$5; per kw., gross, 20c.; disc. 20 to 60 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.50.

Shelbyville Gas Light Co., Shelbyville.

Capital stock, \$20,000.
 President, Geo. H. Dunn.
 Sec'y and pur. agent, G. W. F. Kirk.
 Treasurer, Joseph B. Randall.
 Superintendent, Geo. H. Dunn.
 Process manufacture, Springer.
 Pop. dist. supplied, 8,000. No. meters, 600.
 Miles of mains, approximate, 6.5.

"The metropolitan appearance of the lamp itself, together with the clear, white, steady, powerful light, put the **Welsbach** clear in the lead of anything on the market to-day for the purpose of street lighting."

(Signed) W. W. BINGHAM, President, City Council, Omaha.

See advertisement, page xx.

Price gas, 1904: Light, net from \$1.50 to \$1.80.
Annual output, approx., 6,000,000 c. f.
Candle-power, 28.
Lowest pressure for gas stoves, 1.4 in.
(Natural gas supplied in town.)

South Bend Fuel and Gas Co., South Bend.

Capital stock, \$100,000.
President, G. M. Studebaker.
Secretary, C. A. Carlisle.
Treasurer, C. Studebaker.
Purchasing agent, B. W. Perkins.
Superintendent, B. W. Perkins.
Asst. Superintendent, J. A. Perkins.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 45,000. No. meters, 5,050.
Miles of mains, approximate, 54.4.
Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.
Annual output, approx., 132,000,000 c. f.
Candle-power, 23.
Proportion sold for fuel purposes, 55 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 3,917.
Cities supplied: South Bend and Mishawaka.

Citizens Gas and Fuel Co., Terre Haute.

Capital stock, \$300,000.
President, Richard S. Storrs.
Secretary, J. A. McArthur.
Treasurer, J. A. McArthur.
Gen. mgr. and pur. agt., M. N. Diall.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 45,000. No. meters, 4,100.
Price gas, 1903: Light and Fuel, gross \$1; net 75c.
Annual output, approx., 160,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 2,500.
Supplies Terre Haute.

Valparaiso Light and Fuel Co., Valparaiso.

Capital stock, \$50,000.
Bonds, \$75,000; due 1920; interest, 5 p. c.
President, W. G. Windle.
Secretary, A. C. Smith.
Treasurer, W. H. Gardner.
Purchasing agent, W. H. Gardner.
Superintendent, E. M. Osbourn.
Process manufacture, Coal.
Pop. dist. supplied, 7,000. No. meters, 550.
Miles of mains, approximate, 7.
Price gas, 1903: Light, gross \$1.50; net \$1.30.
Annual output, approx., 10,583,700 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 275.

ELECTRICAL DEPARTMENT.

Arc syst., West'n Elec., and T. H., 100 arcs cap.
Incand. system, T. H. and Ft. Wayne, 2,500 lamps capacity.
No. public arcs, 70; lighted by moon scale.
Price arc, Public, per year, \$67.50.
Price arc, Commercial, per year, \$72.
Price incand., Com'l, per month, 85c.; per kw-h., 10c.; disc. 5 p. c.

Power used, Steam.
Cost boiler fuel, coal, per ton, \$2.70.

Vincennes Light and Power Co., Vincennes.

Capital stock, \$200,000.
Bonds, \$150,000; due 1923; int. 5 p. c.
President, Edward W. Deane.
Secretary, F. G. Deane.
Treasurer, Dwight Smith.
Gen'l manager and pur. agent, H. B. Wales.
Asst. superintendent, Earle Buck.
Process manufacture, Coal.
Pop. dist. supplied, 22,000. No. meters, 900.
Miles of mains, approximate, 12.
Price gas, 1903: Light and Fuel, gross and net 95c.
Annual output, approx., 20,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 400.
Supplies Vincennes.

ELECTRICAL DEPARTMENT

(Operated under same name as gas Co.)
Arc system, T. H., 35; (1,200 c. p.) arcs capac.
Incand. system, Brush, Bullock, 4,000 lamps capac.
Power generators, 50 kw. capac.
Price arc and incand., Commercial, per kw., gross 10c.; disc. 20 and 30 p. c.
Power used, Steam.
Cost boiler coal per ton, \$1.40 and 90c.

Warsaw Gaslight and Coke Co., Warsaw.

Capital stock, \$20,000.
Bonds, \$40,000; due 1922; interest, 6 p. c.
President, Julius Dick.
Secretary, Bascom Parker.
Treasurer, Bascom Parker.
Superintendent, J. Michael Auer.
Cashier, C. D. Se Cheverell.
Process manufacture, Coal.
Pop. dist. supplied, 4,000. No. meters, 575.
(June 1 to Oct. 1, 70 additional consumers at Winona Lake are supplied.)
Miles of mains, approximate, 8.
Price gas, 1903: Light, gross, \$1.10; net \$1.05.
Fuel, gross \$1.10; net \$1.
Annual output, approx., 14,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 1.6 in.
Gas stoves in use, 254.

Washington Gas Co., Washington.

(Reported as sold to Bascom Parker of Niles, Mich. Data below for 1902.)
Capital stock, \$60,000.
Bonds, \$30,000.
President, John M. Woodson.
Sec'y and treas., John M. Woodson.
Purchasing agent, John M. Woodson.
Manager, T. J. Axtell.
Process manufacture, Coal.
Pop. dist. supplied, 10,000. No. meters, 500.
Price gas, 1903: Light, gross \$2. Fuel, \$1.50.
Annual output, approx., 6,000,000 c. f.
Candle-power, 19.

THE WELSBACH STREET LIGHTING COMPANY OF AMERICA can furnish lanterns and fixtures for every possible contingency that may occur. See advertisement, page xx.

Choctaw Gas Light, Heat and Power Co., South McAlester.

(New company.)

Capital stock, \$150,000.

President, A. H. Hoss.

Secretary, S. D. Pierce.

Treasurer S. D. Pierce.

Purchasing agent, J. W. Planck.

Superintendent, J. W. Planck.

Process manufacture, Coal.

Pop. dist. supplied, 6,000. No. meters, 100.

Miles of mains, approximate, 12.

Price gas, 1903: Light and Fuel, gross, \$1.25; net, \$1.

Candle-power, 21.

Proportion sold for fuel purposes, 60 p. c.

Lowest pressure for gas stoves, 3 in.

Gas stoves in use, 50; heaters, 30.

Supplies South McAlester.

IOWA.

Atlantic Gas Light Co., Atlantic.

Capital stock, \$16,000.

Bonds outstanding, \$8,000; interest, 7 p. c.

President, C. D. Jones.

Sec'y and treas., S. B. Hovey.

Pur. agt., Jones & Hovey Co., Independence.

Superintendent, H. C. Stevenson.

Process manufacture, Naphtha (oil).

Pop. dist. supplied, 5,000. No. meters, 200.

Miles of mains, approximate, 8.

Price gas, 1903: Light, gross \$2.50; net \$1.50.

Fuel, gross \$2.50; net \$1.25.

Annual output, approx., coal-gas equiv. 2,000,000 c. f.

Candle-power, oil-gas, 70 to 80.

Proportion sold for fuel purposes, 33 p. c.

Lowest pressure for gas stoves, 1 in.

Gas stoves in use, 80.

Belmond Light and Fuel Co., Belmond.

Capital stock, \$4,000; annual div., 5 p. c.

President, H. J., Klennue.

Secretary and Treasurer, Geo. W. Slight.

Purchasing agent, H. J. Klennue.

Superintendent, E. H. Sands.

Process manufacture, Water (Bowers).

Pop. dist. supplied, 2,000. No. meters, 100.

Miles of mains, approximate, 2.5.

Price gas, 1903; gross, \$1.75; net, \$1.50.

No. public Welsbach lamps, 5; lighted moon scale.

Annual output, approximate, 1,200,000 c. f.

Gas stoves in use, 10.

Supplies Belmond.

Boone Gas Co., Boone.

Capital stock, \$250,000.

Bonds \$88,000; due 1923; interest, 5 p. c.

President, E. G. Pratt.

Vice-president, George D. Roper.

Secretary, E. C. Brown.

Treasurer, E. C. Brown.

Asst. sec'y. and pur. agt., H. E. Morton.

Manager, H. E. Morton.

Process manufacture, Lowe.

Pop. dist. supplied, 9,000. No. meters, 850.

Miles of mains, approximate, 8.5.

Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.35.

No. public lamps 12. Price per year, \$20.

Consumption per burner per hour 5 c. f.

Price includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year 2,400.

Annual output, approx., 16,000,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 40 p. c.

Lowest pressure for gas stoves, 2.2 in.

Gas stoves in use, 641.

Supplies Boone.

Burlington Gas Light Co., Burlington.

Capital stock, \$325,000.

Bonds, \$200,000; due 1906; interest, 6 p. c.

President, Samuel T. Bodine.

Secretary, E. D. Clary.

Treasurer, Lewis Lillie.

Pur. agent, J. A. Pearson, Philadelphia, Pa.

Superintendent, E. D. Clary.

Process manufacture, Lowe.

Pop. dist. supplied, 25,000. No. meters, 5,185.

Miles of mains, approximate, 37.

Price gas, 1903: Light, gross \$1.60; net \$1.50.

Fuel, gross \$1.60; net \$1.

Annual output, approx., 69,795,000 c. f.

Candle-power, 23.

Proportion sold for fuel purposes, 50 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 2,877.

Supplies Burlington.

Peoples Gas and Electric Co., Burlington.

Capital stock, \$1,250,000.

Bonds \$625,000.

President, G. H. Highbee.

Vice-president, E. C. Walsh.

Treasurer, J. T. Remy.

Purchasing agent, C. H. Walsh.

Superintendent, H. Heinzl.

ELECTRICAL DEPARTMENT.

(No report.)

Cedar Rapids Gas Light Co., Cedar Rapids.

Capital stock, \$150,000.

Bonds, \$75,000; due 1912; interest, 5 p. c.

President, A. T. Averill.

Secretary, Glenn M. Averill.

Treasurer, A. T. Averill.

Purchasing agent, Glenn M. Averill.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 28,000. No. meters, 2,500.

Miles of mains, approximate, 26.

Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.25 to \$1.

Annual output, approx., 65,000,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 50 p. c.

The perfection of the service rendered where the **IMPROVED Welsbach STREET LIGHT** is in use has been particularly noted. See advertisement, page xx.

Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 1,300.

Citizens Electric Light and Gas Co., Centreville.

Capital stock, \$35,000.
President, F. S. Payne.
Secretary and treasurer, C. P. Campbell.
Purchasing agent, F. S. Payne.
Superintendent, R. Slattery.
Process manufacture, Askins.
Pop. dist. supplied, 7,500. No. meters, 250.
Miles of mains, approximate, 8.
Price gas, 1903: Light and Fuel, gross \$1.75; net \$1.53.
Annual output, approx., 4,800,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 100.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, W. Elec., 80 (2,000 c.p.) arcs capac.
Incand. system, W. Elec., 1,800 lamps capac.
Power generators, 90 kw. capacity.
No. public arcs, 53; hours lighted, 2,600.
Price arc, Public, per year, \$72.
Price arc, Commercial, per month, \$5.50.
Price incand., Com'l, per mo., 16 c. p., 85c.; 32 c. p., \$1.25; per kw., 15c.
Power used, Steam.
Cost boiler coal per ton, \$1.65.

Clinton Gas Light and Coke Co., Clinton.

Capital stock, \$550,000.
President, S. M. Highlands.
Secretary, G. E. Lamb.
Treasurer, G. E. Lamb.
Purchasing agent, E. M. Highlands.
General Manager, S. M. Highlands.
Superintendent, E. M. Highlands.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 23,000. No. meters, 220.
Miles of mains, approximate, 27.5.
Price gas, 1903: Light and Fuel, gross \$1.15; net \$1.
Annual output, approx., 65,000,000 c. f.
Candle-power, 16.
Proportion sold for fuel purposes, 65 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 1,800.
Supplies Clinton and Lyons.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, T. H., 500 (2,000 c. p.) arcs capac.
Incand. system, T. H., 4,900 lamps capacity.
Power generators, 275 kw. capacity.
No. public arcs, 215; hours lighted, 2,800.
Price arc, Public, per year, \$65.
Price arc, Commercial, per month, \$6.
Price incand., Commercial, per month (16 c. p.), 50c.; per kw-h., 15c.
Power used, Steam.
Cost boiler fuel per ton, \$1.30.

Citizens Gas and Electric Co. of Council Bluffs, Council Bluffs.

Capital stock, \$250,000.
Bonds, \$405,000; due 1928; interest, 5 p. c.

President, F. A. Nash.
Secy. and treas., S. E. Schweitzer.
Purchasing agent, W. B. Whitehorn.
General manager, H. A. Holdrege.
Superintendent, W. P. Beyerle.
Process manufacture, Boeklin.
Pop. dist. supplied, 31,000. No. meters, 2,400.
Miles of mains, approximate, 30.
Price gas, 1903: Light and Fuel, net \$1.45.
Annual output, approx., 58,000,000 c. f.
Candle-power, 26.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 1,600.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Current supplied by Omaha Electric Light and Power Co., Omaha.
No. public arcs, 167; lighted 2,200 hours.
Price arc, Public, per year, \$69.50.
Price incandescent, Commercial, per kw-h., 15c.; disc. 10 to 35 p. c.

Creston Gas and Electric Co., Creston.

Capital stock, \$100,000.
Bonds, \$60,000; due 1920; interest, 6 p. c.
President, C. D. Jones.
Sec'y and treas., S. B. Hovey.
Pur. agt., Jones & Hovey Co., Independence.
Superintendent, J. W. Stratton.
Process manufacture, Coal.
Pop. dist. supplied, 8,700. No. meters, 350.
Miles of mains, approximate, 8.15.
Price gas, 1903: Light, gross and net \$2. Fuel, gross and net \$1.50.
Annual output, approx., 6,500,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 100.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Gen. Elec., 100 (2,000 c. p.) arcs capacity.
Incand. system, Gen. Elec., 2,500 lamps capac.
No. public arcs, 30.
Price arc, Public, per year, \$66.33.
Price incand., Public, per year, \$24.
Hours lighted: arc, 2,200; incand., 4,000.
Price arc, Commercial, per month, \$6.
Price incand., Com'l, per kw. 20c.; disc., 10 to 40 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$1.85.

Davenport Gas and Electric Co., Davenport.

Capital stock, \$800,000.
Bonds outstanding, \$250,000, interest, 6 p. c.; and \$125,000, interest, 5 p. c.
President, Geo. H. Higbee.
Secretary, J. W. Walsh.
Treasurer, J. T. Remey.
Purchasing agent, J. W. Walsh.
Supt. gas dept., W. F. Bowers.
Supt. elec. dept., Frank Bredow.

Owing to the shape of the Welsbach Mantle, the illumination of the street from an IMPROVED **Welsbach STREET LIGHT** is equal in every direction. This is not the case with other methods of lighting. See advertisement, page xx.

Process manufacture, Coal and Springer.
 Pop. dist. supplied, 40,000. No. meters, 2,000.
 Miles of mains, approximate, 40.
 Price gas, 1903: Light and Fuel, gross \$1.35;
 net \$1.25.
 Annual output, approx., 36,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 1,000.
 Supplies Davenport.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, W. Elec., Brush, 850 (2,000 c. p.) arcs capacity.
 Incand. system, Gen. Elec. 9,000 lamps capac.
 No. public arcs, 514; lighted Phila. schedule.
 Price arc, Public, per year, \$56 and \$85.
 Price arc, Commercial, per year, \$74.
 Price incand., Com'l, per mo., 16 c. p., 75c.;
 32 c. p., \$1 per hour, 0.75c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.75.

Peoples Light Co., Davenport.

Capital stock, \$500,000; annual div., 6 p. c.
 President, A. W. Vander Veer.
 Sec'y and mgr., F. W. Kelley.
 Treasurer, A. Burdick.
 Purchasing agent, F. W. Kelley.
 Superintendent, Edward Reavey.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 45,000. No. meters, 2,050.
 Miles of mains, approximate, 26.
 Price gas, 1903: Gross \$1.50; net \$1.25.
 Annual output, approx., 45,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 61 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 1,700.
 Supplies Davenport.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Gen. Elec.
 Incand. syst., 40,000 lamps capacity.
 Power generators, 1,000 kw. capacity.
 Price incand., Com'l, per kw-h., gross 20c.;
 net 7c. and 15c.
 Power used, Water.

Capital City Gas Light Co., Des Moines.

Capital stock, \$600,000.
 Bonds, \$400,000; due 1907; interest, 6 p. c.
 President, Samuel T. Bodine.
 Secretary, W. B. Keffer.
 Treasurer, Lewis Lillie.
 Pur. agent, J. A. Pearson, Philadelphia, Pa.
 Manager, Jansen Haines.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 86,000. No. meters, 10,395.
 Miles of mains, approximate, 99.
 Price gas, 1903: Light and Fuel, gross \$1.25;
 net \$1.15.
 No. public lamps, 838, inc. 48 Welsbachs.
 Price, open flame, per year, \$17.
 Consumption per burner per hour, 5 c. f.

Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 2,733.
 Annual output, approx., 256,043,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 9,128.
 Supplies Des Moines.

Key City Gas Co., Dubuque.

Capital stock, \$270,000.
 Bonds, \$141,000; due 1920; interest, 5 p. c.
 President, Geo. McLean.
 Secretary, Wm. L. Bradley.
 Treasurer, J. K. Deming.
 Purchasing agent, Geo. McLean.
 Superintendent, Geo. McLean.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 40,000. No. meters, 4,181.
 Miles of mains, approximate, 41.
 Price gas, 1903: Light, gross \$1.50; net \$1.25.
 Fuel, gross \$1.25; net \$1.
 Annual output, approx., 100,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 c. p.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 2,000.
 Supplies Dubuque.

Fairfield Gas and Electric Co., Fairfield.

Capital stock, com. \$50,000.
 Bonds outstanding, \$25,000; interest, 6 p. c.
 President, C. D. Jones.
 Sec'y and treas., S. B. Hovey.
 Pur. agt., Jones & Hovey Co., Independence.
 Superintendent, Thos. S. Ward.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 300.
 Price gas, 1903: Light and Fuel, \$1.60.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 1.4 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Brush, 45 (1,200 c. p.) arcs capac.
 Incand. system, T. H., 1,600 lamps capacity.
 Price arc, Com'l, (1,200 c. p.) per month, \$5.
 Price incand., Com'l, per kw., 16c.
 Power used, Steam.
 Cost slack coal per ton, \$1.50.

Fort Dodge Light and Power Co., Fort Dodge.

Capital stock, \$600,000.
 Bonds, \$225,000; due 1920; interest, 5 p. c.
 President, O. M. Oleson.
 Secretary and treasurer, M. F. Healy.
 Pur. agent and supt., W. M. Healy.
 Process manufacture, Coal.
 Pop. dist. supplied, 14,000. No. meters, 550.
 Miles of mains, approximate, 14.
 Price gas, 1903: Light and Fuel, gross and net \$1.50.
 No. public Welsbach lamps, 75.
 Consumption per burner per hour, 4.
 Contract includes repairs, care, lighting and extinguishing.

Have you seen THE **Welsbach** SYSTEM OF STREET LIGHTING in operation? We invite examination and comparison. See advertisement, page xx.

No. hours lamp is lighted per year, 3,100.
Annual output, approx., 12,000,000 c. f.
Proportion sold for fuel purposes, 50 p. c.
Gas stoves in use, 400.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, West'se, G. E., 150 (1,200 c. p.) arcs capacity.
Incandescent system alt., 4,000 lamps capac.
Power generators, 350 kw. capac.
No. pub. arcs (1,200 c. p.) 85; hours lighted, 3,000.
No. public incand., 56; hours lighted, 4,000.
Price arc, Public, per year, \$80.
Price incand., Public, per year (16 c. p.) \$24.
Price incand., Com'l, per month 15c. per kw.
Power used, Steam.
Cost boiler coal per ton, \$2.03.

Fort Madison Gas Light Co., Fort Madison.

President, D. A. Morrison.
Secretary, H. D. McCahn.
Treasurer, H. D. McCahn.
Gen. mgr. and pur. agt., Timmons Walker.
Process manufacture, Moses.
Pop. dist. supplied, 10,000. No. meters, 616.
Miles of mains, approximate, 10.
Price gas, 1903: Light, gross \$1.85; net \$1.50.
Fuel, gross \$1.55; net \$1.25.
No. public lamps, 117. Price per year, \$20.
Consumption per burner per hour, 5 c. f.
Price includes repairs, care, lighting and extinguishing.
Lighted all night, N. Y. schedule.
No. public Welsbach lamps, 5 (incl. above).
Annual output, approx., 12,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 350.

Independence Gas and Electric Co., Independence.

Capital stock, \$10,000.
President, C. D. Jones.
Secretary, S. B. Hovey.
Treasurer, Geo. S. Woodruff.
Superintendent, F. W. Hovey.
Process manufacture, J. D. Patton (oil).
Pop. dist. supplied, 4,600. No. meters, 200.
Miles of mains, approximate, 7.
Price gas, 1903: Light and Fuel, net \$1.25.
Annual output, approx., coal-gas equivalent, 2,000,000 c. f.
Candle-power, 80.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 1.4 in.
Gas stoves in use, 125.

Iowa City Gas Light Co., Iowa City.

Capital stock, pref. \$50,000; com. \$100,000.
Annual dividend, 6 p. c.
President, Thos. C. Carson.
Vice-president, Geo. S. Carson.
Secretary, F. C. Carson.
Treasurer, F. C. Carson.
Purchasing agent, Thos. C. Carson.
Superintendent, J. W. Donovan.
Process manufacture, Coal.
Pop. dist. supplied, 10,000. No. meters, 950.
Miles of mains, approximate, 17.

Price gas, 1904: Gross and net, Light, \$1.90; Fuel, \$1.40.
Annual output, approx., 17,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 45 p. c.
Lowest pressure for gas stoves, 2.25 in.
Gas stoves in use, 500.

Keokuk Gas Light and Coke Co., Keokuk.

Capital stock, \$103,000.
Bonds outstanding, \$150,000; interest, 5 p. c.
President, A. D. Ayres.
Secretary, G. E. C. Johnson.
Treasurer, A. D. Ayres.
Pur. agent and supt., A. S. Grenier.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 15,000. No. meters, 1,100.
Price gas, 1903: Light, \$1.50. Fuel, \$1.25 and \$1.
Annual sales, approx., 19,000,000 c. f.
Candle-power, 19.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 337.
Supplies Keokuk.

ELECTRICAL DEPARTMENT.

(Operated under name of Keokuk Electric Railway and Power Co.)
Arc system, West'n Elec., 200 (2,000 c. p.) arcs capacity.
Incand. system, West'n Elec., 6,000 lamps capacity.
Power generators, 325 kw. capacity.
No. public arcs, 163; hours lighted, 2, 250.
Price arc, Public, per year, \$60.
Price arc, Commercial, per month, \$4.50.
Price incand. Commercial, per mo., (16 c. p.) 10c. to 15c.; per kw. gross 15c.; disc. up to 33 p. c.
Power used, Steam.
Cost boiler coal per ton, \$1.32.

Marengo Gas Co., Marengo.

Capital stock, \$2,500.
President, J. M. Mathern.
Secretary, D. M. Rowland.
Treasurer, E. F. Krepper.
Process manufacture, Oil (Practical).
No. meters, 125.
Miles of mains, approximate, 6.
Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.35.

Le Mars Gas Co., Le Mars.

Capital stock, \$22,000.
President, E. A. Richards.
Secretary, O. H. Hinds.
Treasurer, O. H. Hinds.
Manager and pur. agent, O. H. Hinds.
Superintendent, O. H. Hinds.
Process manufacture, Lowe.
Pop. dist. supplied, 5,000. No. meters, 275.
Miles of mains, approximate, 6.
Price gas, 1903: Net, Light, \$2; Fuel, \$1.50.
Annual output, approx., 4,500,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 1.5 in.

THE WELSBACH STREET LIGHT possesses great economy over any other method of street illumination. See advertisement, page xx.

Marshalltown Light, Power and Railway Co., Marshalltown.

Capital stock, com. \$500,000.
 Bonds outstanding, \$125,000; interest, 6 p. c.
 President, C. D. Jones.
 Secretary, S. B. Hovey.
 Treasurer, M. W. Hovey.
 Pur. agt., Jones & Hovey Co., Independence.
 Superintendent, M. W. Hovey.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 700.
 Price gas, 1903: Light, gross \$1.75 to \$1.60.
 Fuel, \$1.60; over 2,000, \$1.40.
 Annual output, approx., 18,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 70 p. c.
 Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 50 (1,200 c. p.) arcs capac.
 Incand. system, Gen. Elec., 4,000 lamps capacity.
 Price arc, Commercial, per mo., \$5.50 to \$7.50.
 Price incand., Commercial, per meter, 1c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.55.

Brice Gas and Electric Co., Mason City.

Capital stock, pref. \$100,000; com. \$200,000.
 Bonds, \$150,000.
 President, W. E. Brice.
 Secretary and treas., C. H. McNider.
 Pur. agent and Gen. Manager, A. W. Zahn.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 300.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light and Fuel, gross \$1.75; net \$1.50.
 Annual output, approximate, 15,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 75 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 300.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, G. E., 100 (2,000 c. p.) arcs capac.
 Incandescent system, G. E., 100 kw. capac.
 Power generators, 300 kw. capacity.
 No. public arcs, 75; hours lighted, moon scale.
 Price arc, Public, per year, \$60.
 Price arc and incand., Com'l., per kw. gross 5c, 10c. and 20c; disc. 10 p. c.
 Power used, Steam.
 Cost boiler coal, per ton, \$2.

Mt. Pleasant Gas and Electric Light Co., Mt. Pleasant.

Capital stock, auth., \$75,000. Issued, \$50,000.
 President, Geo. H. Spahr.
 Secretary, H. E. Snider.
 Treasurer, H. E. Snider.
 Purchasing agent, H. E. Snider.
 Superintendent, H. E. Snider.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,500. No. meters, 350.
 Price gas, 1903: Light, gross and net \$1.75.
 Fuel, \$1.50.
 Annual output, approx., 8,000,000 c. f.

Candle-power, 20.

Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.

Citizens Ry. and Light Co., Muscatine.

President, W. Musser.
 Vice-president, J. R. Swaringen.
 Sec'y and treas., H. W. Huttig.
 Pur. agent and supt., H. T. Fiske.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 763.
 Miles of mains, approximate, 16.
 Price gas, 1903: Light, gross \$2; net \$1.75. Fuel, gross and net, \$1.50.
 No. public lamps, 175; price per year, \$19.20.
 Price includes repairs, care, lighting and extinguishing.
 Annual output, approx., 23,500,000 c. f.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 20 in.
 Gas stoves in use, about 200.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc syst., West'n Elec., 400 (2,000 c. p.) arcs capac.
 Incand. system, Edison, 6,000 lamps capacity.
 Power generators, 100 kw. capac.
 No. public arcs, 40; lighted 2,365 hours.
 Price arc, Public, per year, \$132.
 Price incand., Com'l., per month, 50c and 75c. per kw-h., 15c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.75.

Oskaloosa Gas Co., Oskaloosa.

Capital stock, \$60,000.
 Bonds, \$40,000; due 1913; interest, 6 p. c.
 President, W. Graham Tyler.
 Secretary, William Bailey.
 Treasurer, W. Graham Tyler.
 Purchasing agent, William Bailey.
 Superintendent, William Bailey.
 Process manufacture, Lowe.
 Pop. dist. supplied, 12,000. No. meters, 600.
 Miles of mains, approximate, 9.
 Price gas, 1903: Gross and net, Light, \$2 Fuel, gross \$2; net \$1.50.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 340.

Ottumwa Gas Light, Heat and Power Co., Ottumwa.

Capital stock, \$150,000.
 Bonds outstanding, \$100,000.
 President, Rufus C. Dawes.
 Secretary, I. C. Elston, Jr.
 Treasurer, R. C. Dawes.
 Supt. and pur. agt., L. J. Davis.
 Process manufacture, Coal and Loomis.
 Pop. dist. supplied, 22,000. No. meters, 900.
 Miles of mains, approximate, 14.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.35.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 16.22.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 500.
 Supplies Ottumwa.

THE **Welsbach STREET LIGHT** is a pure white light, unaffected by change of temperature, winds, or other natural disturbances. See advertisement, page xx.

Red Oak Gas Light Co., Red Oak.

Capital stock, \$16,000.
 Bonds, \$8,000; due 1920; interest, 6 p. c.
 President, C. D. Jones.
 Secretary, G. S. Woodruff.
 Treasurer, C. E. Jones.
 Pur. agt., Jones & Hovey Co., Independence.
 Superintendent, F. A. Kidder.
 Process manufacture, Patton (oil-gas).
 Pop. dist. supplied, 5,000. No. meters, 260.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$2; net \$1.25.
 Fuel, gross \$1.75; net \$1.25.
 Annual output, approx., 2,500,000 c. f.
 Equivalent candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.4 in.
 Gas stoves in use, 120.

Peoples Gas Co., Shenandoah.

Capital stock, \$50,000.
 Bonds, \$35,000; due 1922; int., 5 p. c.
 President, G. W. Leidigh.
 Secretary, Earl Ferguson.
 Treasurer, Frank Anshutz.
 Process manufacture, Lowe.
 Pop. dist. supplied, 4,000. No. meters, 112.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$1.75; net \$1.58;
 Fuel, gross \$1.50; net \$1.35.
 No. public Welsbach lamps, 10.
 Lighted all and every night.
 Candle power, 22.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 70.
 Supplies Shenandoah.

Sioux City Gas and Electric Co., Sioux City.

Capital stock, pref., \$300,000; com., \$1,200,000.
 Bonds, \$793,000; due 1921; interest, 5 p. c.
 President, Samuel T. Bodine.
 Secretary, Lewis Lillie.
 Treasurer, Lewis Lillie.
 Pur. agent, J. A. Pearson, Philadelphia, Pa.
 Manager, L. L. Kellogg.
 Process manufacture, Lowe.
 Pop. dist. supplied, 40,000. No. meters, 5,538.
 Miles of mains, approximate, 55.
 Price gas, 1903: Light and Fuel, \$1.15.
 Annual output, approx., 144,352,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 4,876.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, G. E., A. C., 86 (2,000 c. p.) arcs capacity.
 Incand. system, Ft. Wayne and Stanley, 15,000 lamps capacity.
 Power generators, 300 kw. capacity.
 No. public arcs, 86; lighted 3,000 hours.
 No. public incand., 847; lighted 3,000 hours.
 Price arc, Public, per year, \$75.
 Price incand., Public, per year, 25 c. p., \$15.
 Price incand., Com'l, per kw-h., 20c., disc. 10 to 50 p. c.

Power used, Steam.
 Cost boiler fuel per ton, \$2.

Washington Illuminating Co., Washington.

Capital stock, auth., \$50,000; issued, \$30,000.
 Annual dividend, 6 p. c.
 President, Winfield Smouse.
 Secretary, Frank Stewart.
 Treasurer, Frank Stewart.
 Purchasing agent, Frank Stewart.
 Superintendent, F. N. Anderson.
 Chief eng. and elec., D. W. Mannhardt.
 Process manufacture, Lowe.
 Pop. dist. supplied, 4,500. No. meters, 315.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, gross \$2; net \$1.90.
 Fuel, net \$1.50 to \$2.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 200.
 Supplies Washington.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc and Incandescent system, Westinghouse.
 Price arc, Commercial, per month, \$5.
 Price incand., Com'l, per mo., 16 c. p., 75c., per kw. gross 15c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.75.

Waterloo and Cedar Falls Gas and Electric Co., Waterloo.

Capital stock, \$138,000.
 Bonds outstanding, \$150,000.
 President, George McLean.
 Secretary, H. B. White.
 Treasurer, W. W. Miller.
 Pur. agt. and mgr. Austin Burt.
 Process manufacture, Coal.
 Pop. dist. supplied, 17,000. No. meters, 1,193.
 Miles of mains, approximate, 22.
 Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.35.
 No. public Welsbach lamps, 226.
 Contract includes care, lighting and extinguishing.
 Lighted by moonlight schedule (W. Elec.)
 Annual output, approx., 33,000,000 c. f.
 Lowest pressure for gas stoves, 2.2 in.
 Proportion sold for fuel purposes, 50 p. c.
 Gas stoves in use, 800.
 Supplies Waterloo.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Hartford.
 Incand. syst., alt., 8,600 lamps capacity.
 Power generators, 433 kw. capacity.
 No. public arcs, 43 (2,000 c. p.).
 Lighted all night and every night.
 Price arc, Public, per year, \$72.
 Price incand., Com'l, per kw-h., 8c. and 16c.; disc, 1c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.90.
 Cedar Falls station, 225 kw. capacity.

THE **Welsbach** STREET LIGHT gives the highest candle power of light for the least money. See advertisement, page xx.

Arkansas City Gas and Electric Light Co., Arkansas City.

Capital stock, \$100,000.
 Bonds, \$60,000; due 1902; interest, 7 p. c.
 President, W. M. Sleeth.
 Secretary, W. M. Sleeth.
 Treasurer, W. M. Sleeth.
 Purchasing agent, W. M. Sleeth.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 300.
 Miles of mains, approximate, 6.
 Price gas, 1903: Net, Light and Fuel, \$1.55.
 Annual output, approx., 4,500,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 55 p. c.
 Lowest pressure for gas stoves, 2.6 in.
 Gas stoves in use, 175.
 Supplies Arkansas City.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H. and West's, 50 (2,000 c. p.) arcs capacity.
 Incand. system, West's, 1,200 lamps capac.
 Power generators, 60 kw. capacity.
 No. public arcs, 16; hours lighted, 2,910.
 Price arc, Public, per year, \$72.
 Price arc, Commercial, per month, \$6.
 Price incand., Com'l, per mo., 16 c. p., \$1; 20 c. p., \$1.25; 32 c. p., \$1.50; 50 c. p., \$2; per amp-h., 1.25c.
 Power used, Water.
 Cost boiler fuel per ton, \$1.25.

Atchison Railway, Light and Power Co., Atchison.

Capital stock, \$300,000.
 Bonds, \$150,000; due 1910; interest, 6 p. c.
 President, J. P. Pomoroy.
 Secretary, James Chisham.
 Treasurer, C. S. Hetherington.
 Gen'l Mgr. and Pur. agent., H. N. Siegfried.
 Superintendent, H. N. Siegfried.
 Process manufacture, Coal.
 Pop. dist. supplied, 17,000. No. meters, 900.
 Miles of mains, 13.
 Price gas, 1903: Light, gross \$2; net \$1.75.
 Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 850.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Brush and T. H., 200 (2,000 c. p.) arcs capacity.
 Incandescent system, Ft. Wayne and G. E., 7,500 lamps capacity.
 No. public arcs, 90; lighted by moon scale.
 Price arc, Public, per year, \$60.
 Price arc, Commercial, per month (2,000 c. p.), \$6 to \$15.
 Price incand., Com'l, per kw-h., 20c.; disc., 5 to 40 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.15.

El Dorado Gas Works, El Dorado.

Capital stock, \$75,000; annual div., 6 p. c.
 Bonds outstanding, \$25,000; interest 6 p. c.
 President and owner, W. M. Jones.
 Sec'y and treas., W. M. Jones, Jr.
 Supt. and pur. agent, Edw. T. Butler.
 Process manufacture, Lowe.
 Pop. dist. supplied, 5,000. No. meters, 316.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$2.50; net \$2.25
 Fuel, gross \$1.60.
 No. public Welsbach lamps, 50.
 Consumption per burner per hour, 4 c. f.
 No. hours lamps are lighted per year, 2,160.
 Annual output, approx., 3,500,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.2 in.
 Gas stoves in use, 205.

ELECTRICAL DEPARTMENT.

(Not in operation.)

Emporia Electric and Gas Light Co., Emporia.

Capital stock, \$50,000.
 Bonds, \$40,000; due 1930; interest, 6 p. c.
 President, W. T. Soden.
 Secretary, J. S. Watson.
 Treasurer, H. Dunlap.
 Purchasing agent, H. Dunlap.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000. No. meters, 600.
 Miles of mains, approximate, 10 to 12.
 Price gas, 1903: Light, gross \$2.50; net \$1.50
 Fuel, \$1.50.
 Annual output, approx., 9,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 300.

Fort Scott Gas and Electric Co., Fort Scott.

(Also operates the Electric Street Railway Electric Light and Power Co. and Steam Heat Co.)

Capital stock, \$300,000; annual div., 5 p. c.
 Bonds, \$250,000; due 1931; interest, 5 p. c.
 President, Grant Hornaday.
 Vice-president, C. F. Martin.
 Secretary, F. A. Hornaday.
 Treasurer, F. D. Martin.
 Purchasing agent, F. D. Martin.
 Superintendent, F. D. Martin.
 Process manufacture, Coal.
 Pop. dist. sup., 1902, 8,500. No. meters, 800.
 Miles of mains, approximate, 18.
 Price gas, 1903: Light, gross \$1.50, net \$1.25 to \$1.45. Fuel, gross \$1.50, net \$1.
 Annual output, approx., 19,000,000 c. f.
 Candle-power, 17.4.
 Proportion sold for fuel purposes, 22 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 275.
 Supplies Fort Scott.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Series 200 (2,000 c. p.) arcs capac.
 Incand. system, Edison, 4,000 lamps capac.

THE Welsbach SYSTEM distributes the light over all portions of the area illuminated. See advertisement, page xx.

Power generators, 360 kw. capacity.
No. public arcs, 77; hours lighted, 2,200.
Public incand., 100.
Price arc, Public, per year, \$72.
Price incand., Commercial, per kw-h., 15c.;
disc. up to 12.5c.
Power used, Steam.
Cost boiler fuel per ton, \$1.55.

Water, Light and Gas Co., Hutchinson.

Capital stock, \$500,000.
Bonds outstanding, \$213,500.
(Above covers gas, electric and water plants.)
President, W. E. Hutchinson.
Vice-president, Geo. A. Lewis.
Secretary, L. A. Bigger.
Treasurer, John W. Hamer.
Manager, W. E. Hutchinson.
Process manufacture, Lowe.
Pop. dist. supplied, 10,000. No. meters, 250.
Price gas, 1903: Light, gross \$2. Fuel, \$1.50.
Annual output, approx., 5,906,000 c. f.
Candle-power, 23.
Proportion sold for fuel purposes, 33 p. c.
Lowest pressure for gas stoves, 1.9 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, T. H., 50 (2,000 c. p.) arcs capac.
Incand. system, Edison, 3,200 lamps capac.
No. public arcs, 34.
Price arc, Public, per year, \$100.
Price arc, Commercial, per month, \$8.
Price incand., Com'l, per mo., 16 c. p., \$1;
32 c. p., \$2; per kw-h., 17c.
Power used, Steam.
Cost boiler fuel per ton, \$3.

Wyandotte Gas Co., Kansas City.

Capital stock, \$120,000.
Bonds, \$60,000; due 1903; interest, 6 p. c.
President, James B. McGowan.
Secretary, Lewis Lillie.
Treasurer, Lewis Lillie.
Pur. agent, J. A. Pearson, Philadelphia, Pa.
Superintendent, Northrop Moore.
Process manufacture, Lowe.
Pop. dist. supplied, 55,000. No. meters, 3,965.
Miles of mains, approximate, 39.
Price gas, 1903: Light and Fuel, gross \$1.10;
net \$1.
No. public lamps, 55. Price per year, \$16.
Consumption per burner per hour, 5 c. f.
Price includes repairs, care, lighting and
extinguishing.
No. hours lamp is lighted per year, 2,203.
Annual output, approx., 86,289,000 c. f.
Candle-power, 24.
Proportion sold for fuel purposes, 65 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 4,406.
Supplies Kansas City.

Lawrence Gas, Fuel and Electric Light Co., Lawrence.

Capital stock, \$117,000; annual div., 6 p. c.
Bonds, \$50,000; due 1909; interest, 5 p. c.
President, A. Henley.

Secretary, R. C. Johnston.
Treasurer, R. C. Johnston.
Purchasing agent, R. C. Johnston.
Superintendent, R. C. Johnston.
Process manufacture, Coal.
Pop. dist. supplied, 12,000. No. meters, 1,050.
Miles of mains, approximate, 19.
Price gas, 1903: Light and Fuel, gross \$1.75;
net \$1.60.
No. public lamps, 116. Price per year, \$18.
Consumption per burner per hour, 5 c. f.
Price includes repairs, care, lighting and
extinguishing.
No. hours lamp is lighted per year, 2,000.
Annual output, approx., 16,500,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 942.
Supplies Lawrence.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 75 (4,000 c. p.) arcs capac.
Incand. syst., Gen. Elec., 4,000 lamps capac.
No. public arcs, 24; lighted 2,000 hours.
Price arc, Public, per year, \$96.
Price arc, Commercial, per month, \$8.
Price incandescent, Commercial, per month,
16 c. p., 50c. to \$1.50; per kw-h., 15c.
Power used, Water and Steam.
Cost boiler fuel per ton, \$3.10.

Leavenworth Light and Heating Co., Leavenworth.

Capital stock, \$250,000.
Bonds, \$250,000; due 1922; int., 5 and 6 p. c.
President, E. E. Witherby.
Sec'y and treas., Murray W. Doidge.
Pur. agent and mgr., E. S. Springer.
Process manufacture, Coal.
Pop. dist. supplied, 22,000. No. meters, 1,600.
Miles of mains, approximate, 17.5.
Price gas, 1903: Light, gross and net \$1.25.
Fuel, \$1.
No. public Welsbachs, 104.
Contract includes repairs, care, lighting and
extinguishing.
Lighted 4,100 hours per year.
Annual output, approx., 52,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 75 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 1,200.
Supplies Leavenworth.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc syst., Gen. Elec., 265 (1,200 c. p.) arcs capac.
Incand. syst., Gen. Elec. 9,000 lamps capac.
Power generators, 1,110 kw. capacity.
No. public arcs, 160; lighted 4,200 hours.
No. public incandescents, 7,000.
Price arc, Public, per year, \$84.
Price arc, Com'l, per mo., \$4 to \$10.
Price incand., Public, per year, \$12.
Price incand., Com'l, per month, 50c. to \$1.25;
per kw-h., 20c.; disc. 10 to 80 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$1.

Beware of infringements and imitations. THE **WELSBACH** STREET LIGHTING COMPANY OF AMERICA is the sole proprietor of THE WELSBACH SYSTEM OF STREET LIGHTING. See advertisement, page xx.

Gas and Electric Co., Newton.

President, John C. Nicholson.
 Secretary, James D. Nicholson.
 Treasurer, James D. Nicholson.
 Purchasing agent, James D. Nicholson.
 Superintendent, James D. Nicholson.
 Process manufacture, Lowe.
 Pop. dist. supplied, 5,000. No. meters, 246.
 Miles of mains, approximate, 6.
 Price, gas, 1903: Light and Fuel, gross \$2; net \$1.50.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 148.
 Supplies Newton.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 100 (2,000 c. p.) arcs capac.
 Incand. system, T. H., 1,500 lamps capacity.
 No. public arcs, 19; hours lighted, 2,190.
 Price arc, Public, per year, \$92.70.
 Price arc, Com'l, per mo., \$8, midnight; \$4.50 9 P. M.
 Price incand., Com'l, per kw., 15c.; disc. to 10 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.40.

Ottawa Gas and Heating Co., Ottawa.

Capital stock, \$25,000.
 Bonds, \$25,000; due 1915; interest, 6 p. c.
 President, A. P. Elder.
 Secretary, E. H. Becker.
 Treasurer, E. H. Becker.
 Process manf., Hanlon and Leadley (oil).
 Pop. dist. supplied, 8,000. No. meters, 600.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, \$1.50; under 1,000, \$2. Fuel, \$1.50.
 Annual output, approx., 11,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 350.
 Supplies Ottawa.

Pittsburg Gas and Electric Light Co., Pittsburg.

(Successor to Pittsburg Gas Light and Coke Co.)

Bonds, \$35,000; due 1907; interest 6 p. c.
 Manager, C. A. Patmor.
 Process manufacture, Coal.
 Miles of mains, approximate, 5.
 Price gas, 1903; gross \$1.50; net \$1.35.
 Plant owned by the National Bank of Pittsburg.

Peoples Light, Heat and Power Co., Salina.

Capital stock, \$30,000.
 Bonds outstanding, \$45,500; interest, 6 p. c.
 President, Wm. C. Hook.
 Secretary, Wm. Tracy.
 Treasurer, Wm. Tracy.
 Purchasing agent, Wm. Tracy.
 Superintendent, Wm. Tracy.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000. No. meters, 325.

Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross and net \$2. Fuel, \$1.50.
 Annual output, approx., 9,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 170.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., Ed., 85 (2,000 c. p.) arcs cap.
 Incand. system, T. H., 1,300 lamps capacity.
 No. public arcs, 37; hours lighted, 1,800.
 No. public incandescents, 17.
 Price arc, Public, per year, \$90.
 Price incand., Public, per year, 16 c. p., \$12.
 Price incand., Com'l, per month, all night, 16 c. p., \$1.75; 32 c. p., \$3.50; per kw-h., 20c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.

Excelsior Coke and Gas Co. of Topeka, Topeka.

Capital stock, \$60,000.
 President, C. K. Holliday.
 Sec. and treas., P. J. Dielmann.
 Manager and pur. agent, P. J. Dielmann.
 Superintendent, R. E. Cowdrey.
 Process manufacture, Coal.
 Pop. dist. supplied, 38,000. No. meters, 2,495.
 Miles of mains, approximate, 38.
 Price gas, 1903: net Light, \$1.65. Fuel \$1.50; Engines \$1.35.
 Annual output, approx., 52,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 46 p. c.
 Lowest pressure for gas stoves, 2 in.
 Supplies Topeka.

Wellington Illuminating Co., Wellington.

(Private ownership, operated by trustees.)
 Assessed value of plant, \$6,700.
 Trustees, Wm. Segar, J. H. Pendleton and A. L. Chester, of Westerley, R. I.
 Purchasing agent, Geo. H. Crouse.
 Superintendent, Geo. H. Crouse.
 Process manufacture, Springer.
 Pop. dist. supplied, 4,000. No. meters, 240.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$2.50; net \$2. Fuel, \$1.50.
 Annual output, approx., 3,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 80.
 Supplies Wellington.

Wichita Gas, Electric Light and Power Co., Wichita.

Capital stock, \$250,000.
 President, H. C. Scott.
 Secretary, Samuel Mountain.
 Treas. and pur. agt., H. C. Scott.
 Superintendent, James J. Walsh.
 Process manufacture, Coal.
 Pop. dist. supplied, 30,000. No. meters, 1,625.
 Miles of mains, approximate, 20.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.35.

Extract from report of the Chief engineer of Fairmount Park, Philadelphia, in regard to Welsbach Park Lights: "The **Welsbach** Lights with which you are now lighting the great pleasure ground of the city of Philadelphia are giving great satisfaction, adding greatly to the attractiveness of the Park."

See advertisement, page xx.

Annual output, approx., 36,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 65 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 968.
Supplies Wichita.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, G. E., 210 (2,000 c. p.) arcs capac.
Incand. system, G. E., 8,000 lamps capacity.
Power generators, 300 kw.
Price arc, Commercial, per month, \$6.
Price incand., Com'l, per mo., 16 c. p., \$1.25;
per kw. gross, 12.5c.; disc., 20 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$2.75.

Winfield Gas Co., Winfield.

Capital stock, \$100,000.
Bonds, \$39,000; due 1908; int., 6 p. c.
President, J. H. Fuller.
Secretary, Jewel C. S. Fuller.

Treasurer, J. H. Fuller.
Superintendent, H. A. Daum.
Process manufacture, Coal.
Pop. dist. supplied, 8,000. No. meters, 325.
Miles of mains, approximate, 10.
Price gas, 1903: Gross and net, Light \$2. Fuel \$1.50.
No. public lamps, 85. Price per year, \$25.
Consumption per burner per hour, 5 c. f.
Price includes repairs, care, lighting and extinguishing.
Lighted by moon scale.
Annual output, approx., 9,000,000 c. f.
Candle-power, 16.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, 75.
Supplies Winfield.

ELECTRICAL DEPARTMENT.

(Not in operation at present.)
Arc system, T. H., 35 (2,000 c. p.) arcs capac.
Power used, Steam.

KENTUCKY.

Union Light, Heat and Power Co., Bellevue.

President, James C. Ernst.
Secretary and treas., Geo. E. Engel.
Purchasing agent, R. W. Phillips.
Process manufacture, Coal.
Pop. dist. supplied, 13,000. No. meters, 430.
Price gas, 1903: Bellevue: Light and Fuel,
gross, \$1.75; net, \$1.25. Dayton: Light
gross, \$1.25, net \$1; Fuel, gross, \$1; net
75 cts.
Annual output, approx., 10,300,000 c. f.
Candle-power, 20.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 175.
Cities supplied: Bellevue and Dayton.

Bowling Green Gas Light Co., Bowling Green.

Capital stock, \$60,000.
Bonds, \$24,000; due 1908; interest, 6 p. c.
President, J. E. Potter.
Secretary, J. H. Wilkerson.
Treasurer, T. L. Fitch.
Purchasing agent, H. D. Fitch.
Superintendent, R. H. Fitch.
Process manufacture, Coal.
Pop. dist. supplied, 12,000. No. meters, 650.
Miles of mains, approximate, 10.
Price gas, 1904: Light, gross \$1.50; net \$1.40.
Fuel, gross \$1, net 95c.
Annual output, approx., 12,000,000 c. f.
Candle-power, 17.
Proportion sold for fuel purposes, 45 p. c.
Lowest pressure for gas stoves, 1.6 in.
Gas stoves in use, 340.
Supplies Bowling Green.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Incand. system, Ft. Wayne, 3,000 lamps capac.
Price arc, Commercial, per month, \$4.50.

Price incand., Com'l, per mo., 16 c. p., 50c.;
32 c. p., \$1; per kw-h., 10c.
Power used, Steam.
Cost boiler fuel per ton, \$1.

Union Light, Heat and Power Co., Covington.

Capital stock, \$1,500,000.
Bonds outstanding, \$1,500,000.
President, James C. Ernst.
Secretary and treas., Geo. M. Abbott.
Purchasing agent, R. M. Phillips.
Superintendent, W. R. Wones.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 80,000. No. meters, 4,500.
Miles of mains, approx., 56.
Price gas, 1903: Light, gross \$1.10; net \$1.
Fuel, gross \$1; net 75c.
Annual output, approx., 90,000,000 c. f.
Candle-power, 16.
Proportion sold for fuel purposes, 12 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 1,200.
Cities supplied: Bellevue, Dayton, Newport
and Covington.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Gen. Elec., A. C. series.
Incand. system, Gen. Elec., A. C. series.
Power generators, 1,800 kw. capacity.
No. public arcs, 600; hours lighted, 4,000.
No. public incand., 200; hours lighted, 4,000.
Price arc, Public, per year, \$75.
Price arc, Com'l, per month, (1,200 c. p.) \$2.50.
Price incand., Com'l, per kw., gross 10c.;
disc. 5 p. c.
Power used, Steam.

Danville Gas Light Co., Danville.

Capital stock, \$25,900.
President, J. A. Cheek.

Welsbach System of Street Lighting.

Secretary, C. H. Rodes.
 Treasurer, W. B. Thomas.
 Purchasing agent, W. B. Thomas.
 Superintendent, S. H. Paddelford.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,800. No. meters, 450.
 Price gas, 1903: Light, gross \$1.90; net \$1.71.
 Fuel, gross \$1.25; net \$1.13.
 No. public lamps, 116. Price per year, \$15.
 Consumption per burner per hour, 6 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Lighted by moon scale to 12 P. M.
 Annual output, approx., 8,250,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 3 in.

Capital Gas and Electric Light Co., Frankfort.

Capital stock, com. \$110,000.
 Bonds outstanding, \$40,000; interest, 6 p. c.
 President, D. W. Lindsey.
 Secretary, E. L. Samuel.
 Treasurer, E. L. Samuel.
 Purchasing agent, Frank Austin.
 Supt. and gen. mgr., Frank Austin.
 Process manufacture, Lowe.
 Pop. dist. supplied, 8,000. No. meters, 850.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light, gross \$1.85; net \$1.75.
 Fuel, gross \$1.20; net \$1.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 200.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Ft. Wayne, Western Electric, 95 (2,000 c. p.) arcs capacity.
 Incand. system, National, 1,000 lamps capac.
 No. public arcs, 72; lighted all and every night.
 Price arc, Public, per year, \$96.
 Price arc, Commercial, per month, \$6.50.
 Price incandescent, Commercial, per month, to 12 P. M., 16 c. p., 65c. to 75c.; per hour, 0.75c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.50.

Georgetown Water, Gas, Electric and Power Co., Georgetown.

Capital stock, \$200,000.
 Bonds, \$100,000; due 1921; interest 5 p. c.
 President, J. P. Jackson.
 Secretary, J. Ross Holzman.
 Treasurer, J. Ross Holzman.
 Purchasing agent, J. P. Jackson.
 Superintendent, Samuel Allen.
 Process manufacture, Oil.
 Pop. dist. supplied, 8,000. No. meters, 135.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$1.65; net \$1.50.
 Fuel, gross \$1.375; net \$1.25.
 No. public lamps, 127. Price per year, \$15.20.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 2,222.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 60.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, G. I. Alt., 40 arcs capacity.
 Incand. syst., Edison, T. H., 3,500 lamps cap.
 Power generators, 120 kw. capacity.
 No. public arcs, 25 (1,200 c. p.).
 No. public incandescents, 105.
 Lighted 3,000 hours.
 Price arc, Public, per year, \$80.
 Price incand., Public, per year, (50 c. p.) \$19.50.
 Price arc and incand., Com'l, per kw-h., 12c.; disc. 5 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.40.

Henderson Gas Works, Henderson.

(Owned by city. Operated by the Gas Committee of the Common Council.)
 Chairman, W. H. Barnes.
 Secretary, Paul H. Barnett.
 Treasurer, C. T. Starling.
 Purchasing agent, Paul H. Barnett.
 Superintendent, Ed. Blake.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 700.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light and Fuel, \$1.
 Annual output, approx., 1898, 15,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, small.
 Lowest pressure for gas stoves, 1.5 in.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Henderson Electric Light Works.)
 Chairman Elect. Light Com., E. J. Haley.
 Superintendent, L. P. Hite.
 Arc system, Ft. Wayne, 240 (2,000 c. p.) arcs capacity.
 No. public arcs, 178.
 (Incandescent plant just installed.)

Hopkinsville Gas and Lighting Co., Hopkinsville.

Capital stock, gas dept., \$15,000.
 Bonds, \$30,000; due 1910; interest, 6 p. c.
 President, Wm. T. Tandy.
 Secretary, J. A. Young, Jr.
 Treasurer, Jno. G. Ellis.
 Purchasing agent and supt., J. W. Thomas.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 275.
 Miles of mains, approximate, 5.5.
 Price gas, 1903: Light, \$2. Light and Fuel, \$1.50. Fuel, \$1.25.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 15 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 60.
 Supplies Hopkinsville.

Extract from report of Brooklyn Parks:

"The **Welsbach** Lights are better adapted for Park Roads, being closer to the ground and free from shadows, and giving a clear, straight, white light." See advertisement, page xx.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, W. Elec., 85 arcs capacity.
 Incand. system, Warren, alt., 3,000 lamps cap.
 No. public arcs, (2,000 c. p.) 68.
 Hours lighted per year, 4,000.
 Price arc, public, per year, \$83.33.
 Price arc, commercial, per month, \$7.50.
 Price incand., Com'l, per mo., 16 c. p., 50c.;
 20 c. p., 60c.; 32 c. p., \$1; 50 c. p., \$1.50.
 Power used, Steam.
 Cost boiler coal per ton, \$1.

Lexington Gas Co., Lexington.

Capital stock, \$200,000.
 President, Louis des Cognets.
 Secretary, H. J. Hutchinson.
 Treasurer, H. J. Hutchinson.
 Manager and pur. agent, R. J. Marks.
 Process manufacture, Lowe.
 Pop. dist. supplied, 12,000. No. meters, 1,136.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$2; net \$1.90.
 Fuel, gross \$1.25; net \$1.19.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 350.
 Supplies Lexington.

Kentucky Heating Co., Louisville.

Capital stock, \$700,000; annual div., 7 p. c.
 Bonds, \$100,000; due 1915; interest, 6 p. c.
 President, Donald McDonald.
 Secretary, Thos. W. Kennedy.
 Supt. of distribution, Wm. H. Crutcher.
 Process manufacture, Lowe.
 Pop. dist. supplied, 80,000. No. meters, 8,200.
 Miles of mains, approximate, 22.
 Price gas, 1903: Fuel, gross 55c., net 49.5 c.
 Annual output, approx., artificial and natural gas mixed, 450,000,000 c. f.
 Proportion sold for fuel purposes, 100 p. c.
 Lowest pressure for gas stoves, 6 in.
 Gas stoves in use, 7,000.
 Supplies Louisville.

Louisville Gas Co., Louisville.

Capital stock, \$3,600,000.
 Bonds, \$500,000; due, 1918; interest, 5 p. c.
 President, Udolpho Sneed.
 Secretary, F. A. Nobbe.
 Treasurer, W. P. Lee.
 Purchasing agent, A. H. Barret.
 Engineer, A. H. Barret.
 Process manufacture, Coal.
 Pop. dist. supplied, 210,000. No. meters, 22,000.
 Miles of mains, approximate, 195.
 Price gas, 1903: Light, gross \$1.20; net \$1.
 Fuel, gross 80c.; net 75c.
 Annual output, approx., 500,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 34 p. c.
 Lowest pressure for gas stoves, 1.6 in.
 Gas stoves in use, 9,000.

ELECTRICAL DEPARTMENT.

(Sold to Louisville Electric Light Co.)

Maysville Gas Co., Maysville.

Capital stock, authorised, \$45,000.
 President, Wm. Cochran.
 Price gas, 1903: Gross \$1.50; net, \$1.25 and \$1.

Mt. Sterling Water, Light and Ice Co., Mt. Sterling.

Capital stock, auth., \$250,000.
 (Electric plant represents \$11,650 of capital.)
 Bonds, \$200,000; due, 1921; interest 5 p. c.
 President, E. H. Jones.
 Vice-president, T. J. Biggerstaff.
 Secretary, A. A. Holbrook.
 Treasurer, G. M. Baird.
 Pur. agent, and manager, G. M. Baird.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 30.
 Price gas, 1903: Light and Fuel, net \$1.50.

ELECTRICAL DEPARTMENT.

Arc syst., Ft. Wayne, 70 (1,200 c. p.) arcs cap.
 Incand. syst., Ft. Wayne, 1,800 lamps cap.
 No. public arcs, 38.
 Price arc, Public, per year, \$87.
 Price arc, Commercial, per month, \$5.
 Price incand., Public, per month, 45c. to 80c.;
 per kw. 10c. to 15c.

Union Heat, Light and Power Co., Newport.

(See Covington.)

Owensboro Gas Light Co., Owensboro.

Capital stock, \$85,000.
 President, W. E. Chess.
 Vice-president, L. H. Wymond.
 Treasurer, P. T. Watkins.
 Pur. agt. and Gen'l mgr., C. F. Hoppe.
 Superintendent, I. H. Beatty.
 Process manufacture, Coal.
 Pop. dist. supplied, 18,000. No. meters, 1,000.
 Miles of mains, approximate, 20.
 Price gas, 1903: Light, gross \$1.60; net \$1.50.
 Fuel, gross, \$1.10; net, \$1.
 Annual output, approx., 18,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 500.

Paducah Gas and Electric Co., Paducah.

Capital stock, \$125,000.
 Pres. and pur. agent, Thos. Coffey.
 Secretary and treas., K. Farrelly.
 Superintendent, J. C. Covert.
 Process manufacture, Coal.
 Pop. dist. supplied, 25,000. No. meters, 1,100.
 Miles of mains, approximate, 16.
 Price gas, 1903: Light, gross \$1.50; net \$1.40 to
 to \$1.25. Fuel, gross \$1; net 95c.
 Annual output, approx., 23,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 600.
 Supplies Paducah.

Paris Gas Light Co., Paris.

Capital stock, \$30,000.
 President, A. M. Dolph.
 Secretary, C. M. Thomas.

THE INCREASED CANDLE POWER of the Improved **Welsbach** Street Light is all utilized because it is distributed horizontally and below the horizontal plane in every direction. See advertisement, page xx.

Treas. and pur. agent, A. M. Dolph.
 Superintendent, W. J. Huffman.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,000. No. meters, '02, 242.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$1.60; net \$1.50.
 Fuel, gross \$1.35; net \$1.25.
 No. public lamps, 128. Price per year, \$19.50
 Consumption per burner per hour, 4.5 c. f.
 Price does not include repairs, care, lighting and extinguishing.
 Lighted all night.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 2 in.

Richmond Water and Light Co., Richmond.

Capital stock, \$200,000.
 Bonds outstanding, \$185,000; interest, 5 p. c.
 (One-third of capitalisation only is for gas company.)
 President, J. A. Sullivan.
 Secretary, R. E. Turley.
 Treasurer, A. W. Merrill.
 Purchasing agent, B. R. Dougherty.
 Superintendent, B. R. Dougherty.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,500. No. meters, 250.
 Miles of mains, approx., 10.
 Price gas, 1903: Light, gross \$2; net, \$1.75;
 Fuel, gross \$2; net \$1 to \$1.25.
 No. public lamps, 111. Price per year, \$25.
 Consumption per burner per hour, 6 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Lighted by Philadelphia (moon) schedule.
 Annual output, approx., 6,000,000 c. f.

Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 150.
 Supplies Richmond.

Shelbyville Water and Light Co., Shelbyville.

(Purchased The Shelbyville Gas Co.)
 President, J. J. Logan.
 Secretary, G. S. Chowning.
 Treasurer, H. P. Poynter.
 Supt. and pur. agent, James Stewart.
 Process manufacture, Coal.
 Pop. dist. supplied, 3,500. No. meters, 100.
 Miles of mains, approximate, 4.
 Price gas, 1903: Light and Fuel, gross \$2.50;
 disc. 10, 15 and 20 p. c.
 Annual output, approximate, 1,000,000.
 Proportion sold for fuel purposes, 20 p. c.
 Gas stoves in use, 20.
 Supplies Shelbyville.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, G. E., 35 (2,000 c. p.) arcs capac.
 Incand. system, T. H., 1,800 lamps capacity.
 Power generators, 90 kw. capacity.
 No. public arcs, 32; No. public incand., 6.
 Both arcs and incandescents lighted six months all night, and six months to 1 A. M. (summer).
 Price arc, Public, per year, \$80.
 Price incandescent, Public, per year, \$12.50.
 Price incand., Com'l, per kw-h., 15 c.; disc. on bills of \$2, 10 p. c.; \$4, 15 p. c.; \$8, 20 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.50:

LOUISIANA.

Baton Rouge Electric and Gas Co., Baton Rouge.

Capital stock, \$80,000.
 Bonds, \$39,000; due 1915; interest, 5 p. c.
 President, J. D. Fisher.
 Secretary, S. G. Laycock.
 Treasurer and general mgr., King H. Knox.
 Superintendent, W. A. Hurst.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 280.
 Price gas, 1903: Light, \$3; disc. 5 to 30 p. c.
 Fuel, gross \$1.25.
 Annual output, approx., 5,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 20.

ELECTRICAL DEPARTMENT.

Arc system, G. Elec., 125 (2,000 c. p.) arcs cap.
 Incand. system, G. Elec., 3,300 lamps cap.
 Power generators, 570 kw.
 No. public arcs, 108; lighted 4,015 hours.
 No. public incand., 75.
 Price arc, public, per year, \$80.
 Price incand., public, per kw-h., 10c.

Price arc Com'l per mo., \$7.50, till 10 p. m.
 Price incand. Com'l per mo., \$1.50 to 60c; per kw. gross, 15c., disc. 5 to 25 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$4.

New Orleans Lighting Co., New Orleans.

(Lessee of the New Orleans Gas Light Co. and now owned by New Orleans R'ys Co.)
 Capital stock, N. O. L. Co., \$2,000,000; N. O. G. L. Co., \$3,750,000.
 Bonds, N. O. L. Co., \$1,800,000; due 1925; int. 5 p. c.
 Secretary, Theo. F. Lozier.
 Treasurer, O. W. Bright.
 Pur. agt., and Gen'l mgr., Thos. D. Miller.
 Engineer, F. H. Shelton.
 Process manufacture, Lowe.
 Pop. dist. supplied, 300,000. No. meters, 19,000.
 Miles of mains, approximate, 254.
 Price gas, 1903: Light and Fuel, gross \$1.40; net \$1.25.
 Annual output, approx. 550,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.6 in.

"I would state that the **Welsbach** System of Street Lighting that was installed in this city in June, 1898, has proved entirely satisfactory to this department."

(Signed) WILLIAM D. LANG, Superintendent of Lamps, Boston, Mass.

See advertisement, page xx.

Gas stoves in use, about 11,000.
Supplies New Orleans.

Shreveport Gas, Electric Light and Power Co., Shreveport.

Capital stock, \$200,000.
Bonds, \$300,000; due, 1932; int. 5 p. c.
President, H. N. Morris.
Vice-president, R. C. Dawes.
Pur. agent and treasurer, H. N. Morris.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 27,000.
No. meters, 1,100.
Miles of mains, approximate, 15.
Price gas 1903; Light and Fuel, gross, \$1.66;
net, \$1.50.
Annual output approximate, 28,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 65 p. c.

Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 800.
Supplies Shreveport.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, T. H., 140 (2,000 c. p.) arcs capac.
Incandescentsystem, Gen. Elec., 15,000 lamps
capacity.
Power generators, 560 kw. capacity.
No. public arcs, 142; lighted all and every
night.
Price arc, Public (2,200 c. p.), per year, \$95.
Price arc and incand. per kw., 15c.; disc. 5
to 33 p. c.
Power used, Steam.
Cost boiler coal, per ton, slack, \$3.50.
(Large addition now being made to plant.)

MAINE.

Kennebec Light and Heat Co., Augusta.

Capital stock, auth., \$250,000.
Bonds, \$200,000; interest, 6 p. c.
President, George P. Wescott.
Secretary, E. C. Hersey.
Treasurer, E. C. Hersey.
Purchasing agent, George F. West.
Superintendent, William H. Williams.
Process manufacture, Lowe.
Pop. dist. supplied, 10,000. No. meters, 614.
Price gas, 1903: Light gross, \$2.10; net \$2; Fuel
gross, \$1.50.
Annual output, approx., 12,534,000 c. f.
Candle-power, 22.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, approximate, 100.
Cities supplied: Augusta and Hallowell.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Gen. Elec., 2,000 (2,000 c. p.) arcs
capacity.
Incand. sys., T. H., 12,000 lamps capac.
No. public arcs, 66; lighted all night; 41
lighted to midnight.
Price arc Public, per year \$75 and \$60.
Price arc and incand. Com'l, per kw. gross,
15c.
Power used, Steam and Water.
Cost boiler coal per ton, \$5.

Bangor Gas Light Co., Bangor.

Capital stock, \$300,000.
Bonds, \$300,000; due 1941; interest, 5 p. c.
President, Morris W. Stroud.
Secretary, R. L. Babcock.
Treasurer, Morris W. Stroud.
Gen'l. supt. and pur. agent, S. P. Curtis,
Philadelphia, Pa.
Superintendent, Vernon K. Gould.
Process manufacture, Coal.
Pop. dist. supplied, 25,000. No. meters, 2,450.
Miles of mains, approximate, 30.
Price gas, 1903: Light gross, \$1.65; net \$1.40.
Annual output approx., 43,000,000 c. f.

Candle-power, 20.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 827.
Supplies: Bangor and Brewer.

Sagadahock Light and Power Co., Bath.

Capital stock, \$175,000.
Bonds, \$125,000; due 1921; interest, 5 p. c.
President, Geo. F. West.
Treas., A. S. Bosworth.
Purchasing agent, Geo. F. West.
Superintendent, J. C. Humphreys.
Process manufacture, Coal.
Pop. dist. supplied, 5,000. No. meters, 487.
Miles of mains, approximate, 5.
Price gas, 1903: Light, gross \$2.10; net \$2.
Fuel, gross \$1.60; net \$1.50.
Annual output, approx., 7,900,000 c. f.
Candle-power, 17.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 1.7 in.
Gas stoves in use, 96.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Gen. Elec., 75 (1,200 c. p.) arcs cap.
Incandescent system, West'se, Gen. Elec.,
8,000 lamps capacity.
Power generators, 650 kw. capacity.
No. public arcs, 44 (1,200 c. p.)
No. public incand., 68.
Hours lighted, public arcs and incand., 4,000.
Price arc, Public, per year, \$75.
Price incand., Public, per year (50 c. p.), \$25
Price arc and incand., Com, per kw-h., gross,
12c.; net, 10c.
Power used, Steam.
Cost boiler coal per ton, \$4 to \$5.

Belfast Gas and Electric Co., Belfast.

Capital stock, pref. \$20,000; com., \$40,000.
Bonds, \$20,000; due 1923; interest, 5 p. c.
President, A. B. Sederquist.
Secretary and treas., N. Curtis Fletcher.

THE **Welsbach** SYSTEM OF STREET LIGHTING is employed in the following cities: New York City, Philadelphia, Pa., Freehold, N. J., East Orange, N. J., New Haven, Conn., Brookline, Mass., Cambridge, Mass., New Rochelle, N. Y., Omaha, Neb., Springfield, O., Boston, Mass., New Bedford, Mass., Bridgeport, Conn., Dayton, O., Pensacola, Fla., St. Louis, Mo., Providence, R. I., San Francisco, Cal., Yonkers, N. Y., Milwaukee, Wis., Portland, Me., and various other cities. See advertisement, page xx.

Purchasing agent, N. Curtis Fletcher.
Superintendent, L. G. Vise.
Process manufacture, Coal.
Pop. dist. supplied, 4,617. No. meters, '02, 275.
Miles of mains, approximate, 4.
Price gas: Light, gross \$2.50. Fuel, gross \$1.80
Annual output, approx., 1,500,000 c. f.
Proportion sold for fuel purposes, 25 p. c.
Supplies Belfast.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system T. H., 80 (2,000 c. p.) arcs capac.
Incandescent system, T. H., 1,200, 16 c. p.,
lamps capacity.
Power generators, 62 kw. capacity.
No. public arcs, 1902 (2,000 c. p.) 26; Lighted,
1,500 hours.
Price arc Public per year, \$63.
Price arc, Com., per mo., (2,000 c. p.) \$4.50.
Price incand., Com., per mo., 16 c. p., 90c.
Power used, Steam and Water.

York Light and Heat Co., Biddeford.

President, Geo. P. Westcott.
Secretary and treas. Geo. F. West.
Purchasing agent, J. G. Shaw.
Superintendent, C. H. Andrews.
Process manufacture, Coal.
Pop. dist. supplied, 25,000. No. meters, 528.
Miles of mains, approximate, 11.
Price gas, 1903: Light gross and net, \$2. Fuel
gross and net, \$1.60.
Annual output, approx., 13,000,000 c. f.
Candle power, 17.
Proportion sold for fuel purposes, 15 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 50.
Cities supplied: Biddeford and Saco.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Gen'l Elec., 100 (2,000 c. p.) arcs
capac.; 150 (1,200 c. p.) arcs capac.
Incand. system, Gen'l Elec., 5,000, 16 c. p.,
lamps capac.
Power generators, 400 kw. capac.
No. public arcs, 87 (2,000 c. p.); 67 (1,200 c. p.);
lighted all night.
Price arc, Public, per year \$100 and \$87.50.
Price incand., per kw., 11c.
Power used, Steam.
Cost of boiler coal per ton, \$4.50.

St. Croix Gas Light Co., Calais.

Capital stock, \$24,000.
President, Frank Todd.
Secretary, F. N. Davis.
Treasurer, Henry F. Todd.
Purchasing agent, F. N. Davis.
Superintendent, F. N. Davis.
Process manufacture, Coal.
Pop. dist. supplied, 7,800. No. meters, 333.
Miles of mains, approximate, 5.
Price gas, 1903: Light, gross \$4; net \$3 and \$2.
Fuel, gross \$2; net \$1.
No. public lamps, 1. Price, \$17.
Consumption per burner per hour, 10 c. f.

Price does not include repairs, care and
lighting.
Lighted to midnight every night.
Annual output, approx., 8,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 15 p. c.
Lowest pressure for gas stoves, 1 in.
Gas stoves in use, 20.
Cities supplied: Calais, Me., and St. Stephens,
N. B. Supplies Milltown, N. B. with
electricity only.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Brush, 180 arcs capacity.
Incand. system, West's, Gen. Elec., 3,750
lamps capacity.
No. public arcs, 88 (2,000 c. p.); lighted every
night till 12.
Public incand., 13; lighted every night till 12.
Price arc, Public, per year, \$60.
Price arc, Commercial, per month, \$7.
Price incand., Public, per year, \$20 for 50 c. p.
Price incand., Com'l, per mo., 52c. for 16 c. p.;
\$1.04 for 32 c. p.; per lamp-hour, 1c. net.
Power used, Water.
Cost boiler fuel per ton, \$4.40.
300 h.p. steam plant to use in case low water.

Lewiston Gas Light Co., Lewiston.

Capital stock, \$200,000.
Bonds, \$200,000; due 1924; interest, 4 p. c.
President, Wallace H. White.
Secretary, W. R. Stevens.
Treasurer, Herbert Payson.
Superintendent, Wm. M. Scott.
Process manufacture, Lowe.
Pop. dist. supplied, 30,000. No. meters, 2,000.
Miles of mains, approximate, 18.
Price gas, 1903: Gross \$1.70; net \$1.60.
Annual output, approx., 40,000,000 c. f.
Candle-power, 25.
Proportion sold for fuel purposes, 15 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 1,300.
Supplies Lewiston, and Auburn.

Portland Gas Light Co., Portland.

Capital stock, \$350,000.
President, Edward H. Daveis.
Vice-president, Wm. H. Moulton.
Treasurer, Burton Smart.
Purchasing agent, E. H. Yorke.
Engineer, Eugene H. Yorke.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 45,000. No. meters, 6,000.
Miles of mains, approximate, 45.
Price gas, 1903: Gross \$1.35; net \$1.10 to \$1.25.
No. public Welsbach lamps, 360.
Annual output, approx., 125,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes 33 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, about 4,000.
Cities supplied: Portland and Deering.

Rockland, Thomaston and Camden St. Ry., Rockland.

Capital stock, authorised, \$300,000.
President, George E. Macomber.

"The fact that the number of lamps in Worcester has been increased and the contract recommended by a unanimous vote of the City Council is perhaps a sufficient answer to the inquiry if the service is satisfactory to the citizens of Worcester."

See advertisement, page xx.

HENRY A. KNIGHT, Superintendent of Street Lights.

Secretary, H. M. Heath.
 Treasurer, A. D. Bird.
 Mgr. and pur. agt., Thomas Hawken.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 827.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light gross, \$2.25; net, \$2.
 Fuel gross, 1.50; net, \$1.25.
 Annual output, 8,500,000 c. f.
 Candle-power, 18.
 Sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2.5 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name.)
 Arc syst., Gen. Elec., 200 (1,200 c.p.) arcs capac.
 Incand. system, Gen. Elec., 3,100 lamps capac.
 No. public arcs, 100; 1,200 c. p.; hours lighted, 2,650.
 Price arc, Public, per year, to 12 P. M., \$75; all night, \$100.
 Price arc, Commercial, per month, \$5.
 Price incand., Commercial, per kw-h., 20c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.11.

MARYLAND.

Annapolis Gas and Electric Co., Annapolis.

Capital stock, \$100,000.
 Bonds outstanding, \$80,000; interest, 6 p. c.
 President, W. H. Gorman.
 Sec'y and treas., J. Clifton Bosley.
 Mgr. and pur. agt., J. Clifton Bosley.
 Superintendent, H. S. Millar.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 700.
 Price gas, 1903: Gross and net, Light \$1.75
 Fuel, \$1.50.
 Annual output, approximate, 8,000,000.
 Candle-power, 18.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Brush, 120 (2,000 c. p.) arcs capac.
 Incand. system, Stanley, 5,000 lamps capac.
 No. public arcs, 71; hours lighted, 3,800.
 No. public incand., 125; hours lighted, 3,800.
 Price arc, Public, per year, \$90.
 Price incand., Public, per year (25 c. p.), \$12.
 Price arc, Com'l, per month, \$10.
 Price incand, Com'l, per kw-h, 10c.
 Power used, Steam.
 Cost of boiler coal, per ton, \$2.60.

Consolidated Gas Co. of Baltimore City, Baltimore.

Capital stock, \$11,000,000.
 Bonds outstanding, \$6,837,500.
 President, Ferdinand C. Latrobe.
 Secretary, Edgar T. Powers.
 Treasurer, Joseph W. Clarke.
 Purchasing agent, A. T. Banks.
 Manager, Alten S. Miller.
 Chief engineer, George Beadenkoff.
 Process manufacture, Lowe.
 Pop. dist. supplied, 500,000. No. meters, 66,000.
 Miles of mains, approximate, 465.
 Price gas, 1903: Light and fuel, gross, \$1.10; net, \$1.10 to 85c.
 No. public incand. gas lamps, 6,200.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 2,500,000,000 c. f.
 Candle-power, 24.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,500.
 Supplies Baltimore.

Cambridge Gas Co., Cambridge.

Capital stock, \$30,000.
 President, D. H. Lecompte.
 Secretary, J. G. Mills.
 Treasurer, J. G. Mills.
 Supt. and pur. agent, J. A. Jordan.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 306.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, \$2. Fuel, \$1.50.
 No. public Welsbach lamps, 136.
 No. hours lighted: per year, 1,700.
 Annual output, approximate, 4,000,000.
 Candle power, 28.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 40.

Cumberland Gas Light Co., Cumberland.

Capital stock, \$100,000; annual div. 4 p. c.
 President, H. Swartzwelder.
 Secretary, Robt. Shriver.
 Treasurer, Robt. Shriver.
 Purchasing agent, John J. Powers.
 Superintendent, John J. Powers.
 Process manufacture, Coal.
 Pop. dist. supplied, 20,000. No. meters, 1,600.
 Miles of mains, approximate, 20.
 Price gas, 1903: Light, gross \$1.50; net \$1.40
 Fuel, gross \$1.20; net \$1.
 Annual output, approx., 30,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 500.
 Supplies Cumberland.

Easton Light and Fuel Co., Easton.

Capital stock, \$50,000.
 Bonds \$40,000; due 1932; interest, 5 p. c.
 President, Clarence P. King.
 Sec'y and treas., John W. Pittock.
 Purchasing agent, F. B. Aldrich, Pottsville.
 Superintendent, H. M. Renshaw.
 Process manufacture Logan (oil)
 Pop. dist. supplied, 3,500. No. meters, 300.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light and fuel, gross and net \$1.50.
 No. public Welsbach lamps, 4.
 Consumption per burner per hour, 3 c. f.

THE **Welsbach** STREET LIGHT possesses absolute immunity from flickering or smoke in the lanterns; also from bugs and other outside obstructions to illumination. See advertisement, page xx.

Contract does not include repairs, care, lighting and extinguishing.
 Annual output, approximate, 4,000,000 c. f.
 Candle-power, 22.
 Supplies Easton.

ELECTRICAL DEPARTMENT.

Incand. system, Gen. Elec., 1,000 lamps capac.
 No. public incand. (25 c. p.), 17; hours lighted, 2,300.

Price incand. Com'l, per mo., 75c.

Elkton Gas Light Works, Elkton.

President, Chas. M. Ellis.
 Secretary, F. J. Ellis.
 Treasurer, Jos. Hinchliffe.
 Purchasing agent, Jos. Hinchliffe.
 Superintendent, Harry Corridean.
 Process manufacture, Coal.
 Pop. dist. supplied, 2,500. No. meters, 200.
 Miles of mains, approximate, 2.
 Price gas, 1903: net, Light \$2. Fuel, \$1.50.
 Annual output, approx., 2,500,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.

Frederick Gas Company, Frederick.

Capital stock, \$150,000.
 Bonds, \$115,000; due 1933; interest 5 p. c.
 President, Jacob Rohrbach.
 Vice-pres. and gen. mgr., A. B. Beadle.
 Sec'y and treas., C. L. Serrill.
 Manager, R. C. Congdon.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 10,300. No. meters, 758.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$1.50; net \$1.35.
 Fuel, gross \$1.35; net \$1.25.
 Annual output, approx., 13,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 400.
 Supplies Frederick City.

Frostburg Illuminating and Manufacturing Co., Frostburg.

Capital stock, \$10,000.
 Bonds, \$50,000; due, 1918; int. 6 p. c..
 President, Max Wineland.
 Secretary, Duncan Sinclair.
 Treasurer, R. Annan.
 General manager, P. M. Spangler.
 Superintendent, Thos. J. Price.
 Process manufacture, Paul (oil).

Pop. dist. supplied, 8,000. No. meters, 250.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$2. Fuel, \$1.25.
 Annual output, approx., 4,000,000 c. f.
 Proportion sold for fuel purposes, 10 p. c.
 Supplies Frostburg.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, American, 100 (2,000 c. p.) arcs capacity.

Incand. system, Ft. Wayne, 5,000 lamps capac.
 No. public arcs, 45; lighted all night.
 No. public incand., 45; lighted all night.
 Price arc, Public, per year, \$72.
 Price incand., Public, per year, 32 c. p., \$17.40.
 Price arc Com'l, per mo., \$5.
 Price incand. Com'l per mo., 75c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.

Hagerstown Light and Heat Co., Hagerstown.

Capital stock, \$35,000.
 Bonds, \$100,000; due 1920; interest 5 p. c.
 President, Samuel B. Loose.
 Sec'y, and treas., Albert Heard.
 Purchasing agent, Albert Heard.
 Process manufacture, Lowe.
 Pop. dist. supplied, 15,000. No. meters, 1,600.
 Miles of mains, approximate, 16.
 Price gas, 1903: Gross \$1.50; net \$1.25.
 Annual output, approx., 30,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 1,500.
 Supplies Hagerstown.

Westminster Gas Light Co., Westminster.

Capital stock, authorised, \$200,000; issued, \$24,000; annual div., 6 p. c.
 President, John L. Reifsnider.
 Sec'y and treas., J. H. Cunningham.
 Purchasing agent, J. H. Cunningham.
 Superintendent, J. C. Mobley.
 Process manufacture, Coal.
 Pop. dist. supplied, 3,200. No. meters, 375.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$1.50; net \$1.40.
 Fuel, \$1.25.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 45.

MASSACHUSETTS.

Adams Gas Light Co., Adams.

Capital stock, \$17,300.
 President, C. H. Cutting.
 Sec'y and treas., Frank S. Richardson.
 Purchasing agent, Frank E. Curtis.
 Superintendent Gas Dept., Chas. A. Waters.
 Superintendent Elec. Dept., Wm. M. Stewart.
 Gas purchased from No. Adams Gas Co.

Pop. dist. supplied, 12,000. No. meters, 400.
 Miles of mains, approximate, 10.5.
 Price gas, 1903: Light, gross \$1.80; net \$1.62.
 Fuel, gross \$1.60; net \$1.44.
 Annual output, approx., 6,500,000 c. f.
 Candle-power, 19.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 140.
 Supplies Adams.

ELECTRICAL DEPARTMENT.

Current purchased from No. Adams Gas Co.
Public arcs, 72; price per year, \$85.77.
Public incand. 62; price per year, \$25.25.
Hours lighted, arc and incand., public, 4,000.
Price arc Com'l, per night, to 12 P. M. (2,000 c. p.) 18c. to 27c.
Price incand. Com'l per mo., \$1; per kw. gross 10c. to 15c.; disc. 10 p. c.

Amesbury and Salisbury Gas Light Co., Amesbury.

Capital stock, \$60,000.
Bonds outstanding, \$80,000.
President, C. W. Morse.
Sec'y and treas., John Cushman.
General manager, C. W. Morse.
Process manufacture, Lowe-Granger.
Pop. dist. supplied, 9,984. No. meters, 495.
Miles of mains, approximate, 23.
Price gas, 1903: Light, \$2. Fuel, \$1.50.
Annual output, approx., 7,986,000 c. f.
Candle-power, 23.
Proportion sold for fuel purposes, 16 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 230.

Amherst Gas Co., Amherst.

Capital stock, \$40,000; annual div., 6 p. c.
Bonds outstanding, \$30,000; interest, 5 p. c.
President, E. D. Marsh.
Sec'y and treas., C. Fred. Denel.
Pur. agent and supt., David Barry.
Process manufacture, Patton (oil).
Pop. dist. supplied, 5,000. No. meters, 147.
Miles of mains, approximate, 5.
Price gas, 1903: Light, gross \$6; net \$4. Fuel, \$3.
Consumption per burner per hour, 0.5 c. f.
Annual output, approx., 1,000,000 c. f.
Candle-power, 45.
Lowest pressure for gas stoves, 2.2 in.
Supplies Amherst.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Gen. Elec., 250 arcs capac.
Incand. system., G. E., 12,000 lamps capac.
No. public arcs, 32; Price, per year, \$85.
No. public incand., 85.
Hours lighted, pub. arcs and incand, 1,800.
Price incand., Public, per year, 25 c. p., \$20.
Price incand., Commercial, per kw-h., 20c.
Power used, Steam.
Cost boiler fuel per ton, \$5.50.

Arlington Gas Light Co., Arlington.

Capital stock, \$70,000.
Bonds, \$30,000; due 1915; interest, 5 p. c.
President, Walter S. Keene.
Sec'y and treas., John W. Cawley.
Superintendent, James F. Moynihan.
Process manufacture, Coal.
Pop. dist. supplied, 16,000. No. meters, 900.
Miles of mains, approximate, 24.
Price gas, 1903: Light, gross \$2; net \$1.70.
Fuel, gross \$2; net \$1.60.
Annual output, approx., 14,048,000 c. f.
Candle-power, 19.
Supplies, Belmont, Arlington, Winchester.
Gas stoves in use, 324.

Athol Gas and Electric Co., Athol.

Capital stock, \$50,000; annual div. 6 p. c.
Bonds, \$50,000; due 1921; interest, 5 p. c.
President, Geo. D. Bates.
Secretary, W. D. Luey.
Treasurer, A. N. Ellis.
Superintendent, George C. McKnight.
Process manufacture, Lowe-Granger.
Pop. dist. supplied, 8,000. No. meters, 228.
Miles of mains, approximate, 6.
Price gas, 1903: Light, gross \$3; net \$1.97. Fuel, gross \$3; net \$1.
Annual output, 5,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 8.
Supplies Athol.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 56 (1,200 c. p.) arcs capac.
Incand. system, West'se, 4,700 lamps capac.
Power generators, 330 kw. capacity.
No. public arcs, 55 (1,200 c. p.); lighted by moon scale.
No. public incand., 17; lighted to midnight.
Price arc, Public, per year, \$75.
Price incand., Public, per year, 32 c. p., \$15.
Price arc, Com'l, per mo., \$6.25.
Price incand., Com'l, per mo. (32 c. p.) \$1.25.
kw-h., 20c.; disc. 5 to 50 p. c.
Power used, Steam.
Cost coal per ton, \$6.15.

Attleboro Gas Light Co., Attleboro.

Capital stock, \$46,400; annual div. 12 p. c.
President, E. S. Capron.
Secretary, Wm. J. Luther.
Treasurer, Albert W. Sturdy.
Pur. agent and Gen'l manager, E. S. Capron.
Superintendent, Wm. J. Luther.
Process manufacture, Coal.
Pop. dist. supplied, 11,335. No. meters, 900.
Miles of mains, approximate, 10.
Price gas, 1903: Light, gross \$1.70; net \$1.40.
Annual output, approx., 24,425,000 c. f.
Candle-power, 17.77.
Proportion sold for fuel purposes, small.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, about 325.
Supplies Attleboro.

Beverly Gas and Electric Co., Beverly.

Capital stock, \$140,000.
Special stock, \$11,800; div. 6 p. c.
President, Sidney W. Winslow.
Secretary, Andrew W. Rogers.
Treas. and pur. agt., Andrew W. Rogers.
Supt. gas dept., Edward J. Hassett.
Supt. elec. light dept., Alex. Macauley.
Process manufacture, Coal.
Pop. dist. supplied, 14,500. No. meters, 1,070.
Miles of mains, approximate, 12.5
Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.40.
Annual output, approx., 20,000,000 c. f.
Candle-power, 18.

THE **Welsbach STREET LIGHTING COMPANY OF AMERICA** furnishes a special Park Lamp, which is particularly suitable for the lighting of public parks and boulevards. See advertisement, page xx.

Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 550.
Supplies Beverly.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Brush, Gen. Elec., 280 (1,200 c. p.) arcs capacity.

Incand. system, Gen. Elec., 3,000 lamps capac. Power generators, 90 kw. capacity.

No. public arcs, 230 (1,200 c. p.); lighted 3,895 hours.

Price arc, Public, per year, \$100.

Price arc, Commercial, per night, 40c.

Price arc and incand., Com'l per kw., gross 20c.; disc. for cash 10 p. c., quantity 1c. to 6c.

Power used, Steam.

Cost boiler fuel per ton, \$4.50.

Price gas, 1903: Light and Fuel, \$1.
No. public Welsbach lamps, 3,709.
Hours lighted per year, 3,828.
Annual output, approx., 980,000,000 c. f.
Candle-power, 18.
Lowest pressure for gas stoves, 2 in.
Cities supplied: Boston and Brookline.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc syst., Stanley, 600 (2,000 c.p.) arcs capac.

Incand. syst., 34,000 lamps capacity.

Power generators, 200 kw. capacity.

No. public arcs, 575; hours lighted, 3,850.

Price arc, Public, per night, 34c.

Price arc, Com'l, per night, 50c.; per kw. gross, 18c.

Power used, Steam.

Cost boiler fuel per ton, \$4 to \$5.

Bay State Gas Co., Boston.

Capital stock, \$2,000,000.

President, J. L. Richards.

Treasurer, F. E. Smith.

Purchasing agent, R. D. Willard.

Chief engineer, W. A. Wood.

Assistant engineer, W. E. McKay.

Process of manufacture, Lowe.

Miles of mains, approximate, 15.

Population, Boston, 560,892.

Annual output, approx., 860,000,000 c. f.

Lowest pressure for gas stoves, 2 in.

Sells gas to other companies.

Charlestown Gas and Electric Co., Boston.

Capital stock, \$500,000.

President, James F. Hunnewell.

Secretary, S. J. Fowler.

Treasurer and pur. agent, S. J. Fowler.

Superintendent, Patrick Coyle.

Process of manufacture, Coal.

Purchases about two-thirds of the gas from Mass. Pipe Line Co.

Pop. dist. supplied, 50,000. No. meters, 7,300.

Miles of mains, approximate, 52.

Price gas, 1903: Light, gross \$1.20; net \$1.

No. public Welsbach lamps, 521.

No. hours lamp is lighted per year, 3,848.

Annual sales, approx., 180,000,000 c. f.

Candle-power, 18.

Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

No. public arcs, 251; hours lighted, 3,848.

No. public incand., 2.

Price arc, Public, per year, \$127.75.

Price incand. public per year, 32 c. p., \$24.

Price arc, Commercial, per month, \$10.

Price incand., Commercial, per kw-h., 20c.

Power used, Steam.

Cost boiler fuel per ton, \$7.

Boston Gas Light Co., Boston.

Capital stock, \$2,500,000.

President, J. L. Richards.

Treasurer, F. E. Smith.

Purchasing agent, R. D. Willard.

Chief engineer, W. A. Wood.

Process manufacture, Coal and Wilkinson.

Pop. dist. supplied, 167,257. No. meters, 29,920.

Miles of mains, approximate, 142.

Price gas, 1903: Light and Fuel, \$1.

No. public lamps, 606. Price per year \$12.

Consumption per burner per hour, 4 c. f.

Price does not include repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 3,828.

Annual sales about 1,287,000,000 c. f.

Candle-power, 19.15.

Proportion sold for fuel purposes, 40 p. c.

Lowest pressure for gas stoves, 2.5 in.

Gas stoves in use (leased by company), 13,845.

Supplies Boston.

Brookline Gas Light Co., Boston.

Capital stock, \$2,000,000.

Bonds outstanding, \$1,000,000; interest, 5 p. c.

President, Chas. Augustine Stone.

Secretary and treasurer, F. Tudor.

Purchasing agent, E. B. Page.

Chief engineer, J. A. Gould.

Supt. of works, B. J. Allen.

Purchases gas from the Mass. Pipe Line Co.

Pop. dist. supplied, 335,000. No. meters, 29,558.

Miles of mains, approximate, 287.

Dorchester Gas Light Co., Boston.

Capital stock, \$519,600.

President, C. A. Stone.

Secretary, George H. Finn.

Treasurer, F. Tudor.

Purchasing agent, E. B. Page.

Superintendent, J. A. Gould.

Purchases gas from the Mass. Pipe Line Co.

Pop. dist. supplied, 82,000; No. meters, 14,872.

Miles of mains, approximate, 132.

Price gas, 1903: Light and Fuel, \$1.

No. public lamps, 2,488.

No. hours lamp is lighted per year, 3,828.

Annual output, approx., 312,000,000 c. f.

Candle-power, 18.

Lowest pressure for gas stoves, 1.5 in.

Gas stoves in use (leased by company), 8,449.

Cities supplied: Dorchester and Milton.

Extract from report of Department of Public Works, New York City:

"I was very much surprised during a recent visit to Paris to discover that the **Welsbach** had superseded electricity on all the grand avenues, especially the Champs Elysees."

See advertisement, page xx.

CHAS. H. T. COLLIS, Commissioner.

East Boston Gas Co., Boston.

Capital stock, \$220,000; annual div., 6 p. c.
 President, J. L. Richards.
 Secretary and treas., J. Walter Andrews.
 Purchasing agent, R. D. Willard.
 Gen. mgr. and supt., N. W. Gifford.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 50,000. No. meters, 3,750.
 Miles of mains, approximate, 28.
 Price gas, 1903: Light and Fuel, \$1.35; net \$1.25.
 No. public lamps, 525. Including 422 Welsbachs.
 Consumption per burner per hour, 3 & 4 c. f.
 Price does not include repairs, care and lighting.
 No. hours lamp is lighted per year, 3,828.
 Annual output, approx., 100,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 2.8 in.
 Gas stoves in use, 500.
 Supplies East Boston.

Jamaica Plain Gas Light Co., Boston.

Capital stock, \$250,000.
 President, C. A. Stone.
 Secretary, F. Tudor.
 Treasurer, F. Tudor.
 Chief Engineer, J. A. Gould.
 (Purchases gas from Mass. Pipe Line Co.)
 Pop. dist. supplied, 40,000. No. meters, 5,200.
 Miles of mains, approximate, 62.
 Price gas, 1903: Light and Fuel, gross \$1.20; net \$1.
 No. public Welsbach lamps, 1,247.
 Consumption per burner per hour, 3.13 c. f.
 Contract does not include repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 3,828.
 Annual output, approx., 160,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 1.5 in.
 Cities supplied: Jamaica Plain, West Roxbury and Roslindale.

New England Gas and Coke Co., Boston.

(Office 95 Milk St. Works located at Everett.)
 Capital stock, authorised, \$17,500,000; issued, \$17,500,000.
 President, C. Minot Weld.
 Sec'y and treas., Frederic Tudor,
 Gen. mgr., G. H. Finn.
 Process manf., Otto-Hoffmann Coke-Oven Process (coal-gas). Works at Everett.
 Daily capacity, approx., 8,000,000 c. f.
 Candle-power, 18.
 Residual gas not used in coking is sold to the Massachusetts Pipe Line Gas Co., which has contracts to supply gas to the Bay State Gas Co., Boston Gas Light Co., Brookline Gas Light Co., Charlestown Gas and Electric Co. Chelsea Gas Light Co., and Dedham and Hyde Park Gas Co. Dorchester Gas Light Co., Everett Gas Light Co., Jamaica Plain Gas Light Co., Roxbury Gas Light Co., South Boston Gas Light Co.

Roxbury Gas Light Co., Boston.

Capital stock, \$600,000.
 President, J. L. Richards.
 Treasurer, F. E. Smith.
 Purchasing agent, R. D. Willard.
 Engineer, W. A. Wood.
 (Purchases gas from Bay State Gas Co.)
 Population Roxbury district, 105,393.
 No. meters, 12,563.
 Miles of mains, approximate, 84.
 Price gas, 1903: Light and Fuel, \$1.
 No. public lamps, 219. Price per year, \$12.
 Consumption per burner per hour, 4 c. f.
 Price does not include repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 3,828.
 Annual output, approx., 312,959,761 c. f.
 Candle-power, 21.65.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use (leased by company), 8,803.
 Supplies Roxbury.

South Boston Gas Light Co., Boston.

Capital stock, \$440,000.
 President, J. L. Richards.
 Treasurer, F. E. Smith.
 Purchasing agent, R. D. Willard.
 Chief engineer, W. A. Wood.
 Purchases gas from the Bay State Gas Co.
 Population, So. Boston district, 67,809.
 No. meters, 6,117.
 Miles of mains, approximate, 42.
 Price gas, 1903: Light and Fuel, \$1.
 No. public lamps, 593. Price per year, \$12.
 Consumption per burner per hour, 4 c. f.
 Price does not include repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 3,828.
 Annual output, approx., 155,000,000 c. f.
 Candle-power, 22.50.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use (leased by company), 3,624.
 Supplies South Boston.

Brockton Gas Light Co., Brockton.

Capital stock, \$260,000; annual div., 5 p. c.
 Bonds, \$100,000; due 1908; interest, 6 p. c.
 President, Marcus Beebe.
 Secretary, E. B. Moony.
 Treasurer, M. P. Clough.
 Purchasing agent, E. B. Moony.
 Con. engineer, Chas. F. Prichard.
 Superintendent, E. B. Moony.
 Process manufacture, Coal.
 Pop. dist. supplied, 45,000. No. meters, 4,050.
 Miles of mains, approximate, 50.
 Price gas, 1903: Light, gross \$1.60; net \$1.30.
 Annual output, approx., 80,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 2,000.
 Supplies Brockton.

Cambridge Gas Light Co., Cambridge.

Capital stock, \$800,000; annual div., 10 p. c.
 President, Quincy A. Vinal.
 Secretary, Albert M. Barnes.
 Treasurer, Albert M. Barnes.
 Purchasing agent, Horace A. Allyn.
 Superintendent, Horace A. Allyn.

The **Welsbach** STREET LIGHT is now extensively used on many of the principal streets of New York City. See advertisement, page xx.

Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 110,000. No. meters, 17,000.
 Miles of mains, approximate, 121.
 Price gas, 1903: Light and Fuel, gross \$1.20;
 net \$1.
 No. public Welsbach lamps, 286.
 Price per 1,000, as above.
 Consumption per burner per hour, 3 c. f.
 Price does not include repairs, care, lighting
 nor extinguishing.
 No. hours lamp is lighted per year, 3,750.
 Annual output, approx., 470,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 3 in.
 Cities supplied: Cambridge and portion of
 Somerville.

Chelsea Gas Light Co., Chelsea.

Capital stock, \$300,000; annual div., 6 p. c.
 Bonds, \$175,000; due 1922; interest, 4 p. c.
 President, Jas. L. Richards.
 Treasurer, Henry C. French.
 Purchasing agent, R. D. Willard.
 Superintendent gas dept., A. F. Stone.
 Manager, Herbert W. Moses.
 (Purchases gas from Mass. Pipe Line Co.)
 Pop. dist. supplied, 35,000. No. meters, 2,400.
 Miles of mains, approximate, 37.
 Price gas, 1903: Light and Fuel, gross \$1.35;
 net \$1.25.
 Annual output, approx., 45,000,000 c. f.
 Candle-power, 18.23.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 300.
 Supplies Chelsea.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Gen. Elec. 300 (1,200 c. p.) arcs
 capacity.
 Incand. system, Gen. Elec. 25,000 lamps capac.
 Power generators 375 kw. capacity.
 No. public arcs, 235; hours lighted, 4,000.
 No. public incand., 203; hours lighted, 4,000.
 Price arc, Public, per year, \$100.37.
 Price incand., Public, per year, (25 c. p.), \$25.
 Price arc, Commercial, per mo., \$6 to \$10.
 Price incand., Commercial, per kw-h., gross
 20c.; disc. 10 to 50 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.

Chicopee Gas Light Co., Chicopee.

Capital stock, \$92,500.
 Bonds \$60,000; due 1917; interest, 5 p. c.
 President, R. S. Storrs.
 Sec'y, and treas., Murray W. Dodge.
 General manager, Edwin E. Witherby.
 Purchasing agent, C. H. Nutting.
 Superintendent, C. H. Nutting.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 12,000. No. meters, 1,200.
 Miles of mains, approximate, 18.
 Price gas, 1903: Light and fuel, gross \$1.70
 net \$1.50; disc. down to \$1.
 No. public Welsbach lamps, 29.
 Contract includes repairs, care, lighting and
 extinguishing.
 Lighted all night, moon scale.

Consumption per burner per hour, 3.5 c. f.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 900.
 Cities supplied: Chicopee and Chicopee Falls.

Clinton Gas Light Co., Clinton.

Capital stock, \$73,000; Annual div., 6 p. c.
 Notes, \$100,000; due 1905-1920; int., 5 p. c.
 President, Alfred Clarke.
 Secretary, Geo. F. Howland.
 Treasurer, Addis M. Whitney.
 Superintendent, J. S. Brown.
 Purchasing agent, Alfred Clarke.
 Superintendent, J. S. Brown.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 809.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light, gross \$2; net \$1.80.
 Fuel, net \$1.40.
 Annual output, approx., 16,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 361.
 Supplies Clinton.
 (Franchise also covers Lancaster.)

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Brush, 100 (1,200 c. p.) arcs capac.
 Incand. system, Gen. Elec., 3,000 lamps capac.
 No. public arcs, 53; hours lighted, 4,000.
 No. public incand., 210; hours lighted, 4,000.
 Price arc, Public, per year, \$121.
 Price incand., Public, per year, (16 c. p.), \$31.
 Price arc, Com'l, per mo., \$7.50.
 Price incandescent, Commercial, per month
 (16 c. p.), \$1; per kw-h., 20c; disc., 10 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$6.

Cottage City Gas and Electric Light Co., Cottage City.

Capital stock, \$25,000.
 President, Arthur Burnham.
 Secretary, W. C. Loring.
 Treasurer, A. A. Brown.
 Purchasing agent, Lewis Bartlett.
 Superintendent, Lewis Bartlett.
 Process manf., Loomis (water, fuel, gas).
 Pop. dist. supplied, 1,038; 3 summer months
 20,000. No. meters, 334.
 Miles of mains, 4.
 Price gas, 1903: Light, gross \$2.20; net \$2.
 Fuel, gross \$1.20; net \$1.
 No. public lamps, 56, all Welsbachs.
 Contract does not include repairs.
 No. hours lamp is lighted per year, 2,236.
 Annual output, approx., 4,150,000 c. f.
 Proportion sold for fuel purposes, 52 p. c.
 Lowest pressure for gas stoves, 3 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H. and Ball, 60 (1,600 c. p.) and
 50 (1,200 c. p.) arcs capacity.

The "Candle Power" given by the IMPROVED **Welsbach STREET LIGHT** is more efficient for street illuminations than that obtained by any other means. See advertisement, page xx.

No. public arcs, 68 (1,600 c. p.); lighted by moon scale, 12 P. M.
 Price arc, Public, 54 arcs for 4 months, and 26 arcs for 8 months, \$3,000.
 Price arc, Commercial, summer season of 4 months, \$40 to \$50.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.65.

Danvers Gas Light Co., Danvers.

Capital stock, \$20,000.
 Secretary, A. W. Rogers.
 Treasurer, A. W. Rogers.
 Purchasing agent, S. E. Gillette.
 Superintendent, S. E. Gillette.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 300.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light and Fuel, gross \$2.20; net \$1.98.
 Annual output, approx., 3,898,100 c. f.
 Candle-power, 16.7.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2.2.
 Gas stoves in use, approximate, 135.
 Supplies Danvers.

Easthampton Gas Co., Easthampton.

Capital stock, \$30,000.
 President, G. L. Clark.
 Secretary, G. L. Clark.
 Treasurer, Geo. L. Manchester.
 Purchasing agent, Geo. L. Manchester.
 Superintendent, Geo. L. Manchester.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 332.
 Miles of mains, approximate, 4.
 Price gas, 1903: Light, gross \$2.50; net \$2.09.
 Annual output, approx., 6,244,300 c. f.
 Candle-power, 18 to 20.
 Gas stoves in use (leased by company), 82.

Everett Gas Light Co., Everett.

(Supplied from works of New England Gas and Coke Co. See Boston.)

New England Gas and Coke Co., Everett.

(Works located here. See Boston.)

Fall River Gas Works Co., Fall River.

Capital stock, \$635,000; annual div., 10 p. c.
 President, Russell Robb.
 Clerk, Henry R. Hayes.
 Treasurer, A. Stuart Pratt.
 Manager and pur. agent, Jos. E. Nute.
 Process manufacture, Lowe.
 Pop. dist. supplied, 113,000. No. meters, 14,172.
 Miles of mains, approximate, 93.
 Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
 No. public lamps, 110; lighted, 1,400 hours.
 Price public lamps, per lamp-hour, 0.75c.
 Consumption per burner per hour, 6 c. f.
 Price does not include repairs, care, lighting and extinguishing.
 Annual output, approx., 340,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 7,885.
 Supplies Fall River.

Fitchburg Gas and Electric Light Co., Fitchburg.

Capital stock, \$275,000; annual div., 8 p. c.
 Bonds, \$45,000; due 1908-1909; interest, 4 p. c.
 President, Herbert I. Wallace.
 Secretary, Henry F. Coggschall.
 Treasurer, Henry F. Coggschall.
 Purchasing agent, Henry F. Coggschall.
 Supt. gas department, Wm. L. Walker.
 Supt. electric dept., A. H. Kimball.
 Process manufacture, Coal.
 Pop. dist. supplied, 34,000. No. meters, 2,006.
 Miles of mains, approximate, 29.
 Price gas, 1903: Light and Fuel, gross \$1.65; net \$1.45.
 No. public lamps, 20. Free.
 Consumption per burner per hour, 6 c. f.
 No. hours lamp is lighted per year, 4,600.
 Annual output, approx., 42,700,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 36 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 1,300.
 Supplies Fitchburg.

ELECTRICAL DEPARTMENT.

Arc system, G.E. 400 (1,200 c. p.) arcs capacity.
 Incand. system, Gen. Elec., 20,000 lamps capacity.
 No. public arcs, 315; hours lighted, 4,000.
 Price arc, Public, per year, \$100.
 Price arc and incand., Commercial, per kw-h., 20c. Disc. 5 to 50 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.85.

Gardner Gas, Fuel and Light Co., Gardner.

Capital stock, \$26,200.
 President, John A. Dunn.
 Treasurer, James A. Stile.
 Bonds authorised, \$15,500.
 Process manufacture, Water-gas.
 Pop. dist. supplied, 10,813. No. meters, 343.
 Miles of mains, approximate, 13.
 Price gas, 1903: Light and Fuel, net \$2.
 Gas sold 1903, 6,133,400 c. f.
 Candle-power, 22.
 Gas stoves in use (leased by company), 148.

Gloucester Gas Light Co., Gloucester.

Capital stock, com. \$150,000.
 President, Robert R. Fears.
 Secretary, David W. Low.
 Treasurer, David W. Low.
 Purchasing agent, John A. Coffin.
 Superintendent, John A. Coffin.
 Process manufacture, Coal.
 Pop. dist. supplied, 26,000. No. meters, 1,700.
 Miles of mains, approximate, 22.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.20.
 No. public lamps, 100. Price per year, \$9.60.
 Consumption per burner per hour, 5 c. f.
 Price includes gas only.
 No. hours lamp is lighted per year, 1,920.
 Annual output, approx., 45,000,000 c. f.
 Candle-power, 17.5.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 900.
 Supplies Gloucester.

THE **Welsbach** STREET LIGHT gives the highest candle power of light for the least money. See advertisement, page xx.

Greenfield Gas Light Co., Greenfield.

Capital stock, pref. \$2,000; com. \$48,000.
 Bonds outstanding \$75,000.
 President, James D. Safford.
 Secretary, Wm. S. Allen.
 Treasurer, A. R. Willard.
 Purchasing agent, A. R. Willard.
 Superintendent, A. R. Willard.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 401.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$2.50; net \$2.25.
 Fuel, gross \$2.50; net \$1.50.
 Annual output, approx., 5,458,100 c. f.
 Candle-power, 18.5.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 160.

Haverhill Gaslight Co., Haverhill.

Capital stock, \$75,000.
 President, Thomas A. Nevins.
 Sec'y and treas., Eben H. Gay.
 Gen. mgr. and pur. agt., P. J. Nevins.
 Superintendent, C. A. Stevens.
 Process manufacture, Wilkinson.
 Pop. dist. supplied, 37,000. No. meters, 5,590.
 Miles of mains, approximate, 44.
 Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
 No. public lamps, 220. Price per year (open flame), \$18.25.
 No. public Welsbach lamps, 219 (incl. above).
 No. hrs. lamp is lighted per year, about 2,205.
 Consumption per burner per year, 3 c. f.
 Contract does not include repairs, care, lighting nor extinguishing.
 Annual output, approx., 153,000,000 c. f.
 Candle-power, 25.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 5,072.

City of Holyoke Gas and Electric Dept., Holyoke.

Acting manager and pur. agent, W. H. Snow.
 Superintendent, O. W. Adams.
 Process manufacture, Coal and-Lowe.
 Pop. dist. supplied, 47,600. No. meters, 4,518.
 Miles of mains, approximate, 36.66.
 Price gas, 1903: Light, gross \$1.50; net \$1.35 and \$1.30. Fuel, \$1.25.
 No. public lamps, 20. Price per hour, 8c.
 Consumption per burner per hour, 4 c. f.
 Price does not include repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 1,241.
 Annual output, approx., 109,000,000 c. f.
 Candle-power, 18.5.
 Lowest pressure for gas stoves, 2 in.
 Supplies Holyoke.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Gen. Elec., 260 (2,000 c. p.) and 275 (1,200 c. p.) arcs capacity.
 Incand. sys., Gen. Elec., 3,000 lamps capac.
 No. public arcs, 500; hours lighted, 4,000.
 Price arc, Public, per year (1,200 c. p.), \$100

Price incand., Com'l, per kw., 25c., discounts 20 to 60 p. c.
 Power used, Water and Steam.
 Cost boiler fuel per ton, \$4.55.

Hudson Gas Light Co., Hudson.

(Began operations November 1, 1903.)
 Capital stock, 25,000.
 President, H. F. Hurlburt.
 Secretary and treasurer, F. P. Cabot.
 Pur. agent and gen'l man., C. W. Moore.
 Purchases gas from the Marlboro Co.
 Pop. dist. supplied, 5,000. No. meters, 150.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$2; net \$1.75.
 Fuel, gross \$2; net \$1.50.
 Gas stoves in use, 50.
 Supplies Hudson.

Dedham and Hyde Park Gas and Electric Light Co., Hyde Park.

Capital stock, \$80,000.
 Bonds, \$60,000; due 1918; interest, 5 p. c.
 President, Edwin E. Witherby.
 Treasurer, S. Reading Bertron.
 Purchasing agent, L. B. Johns.
 Superintendent, L. B. Johns.
 (Purchases from Mass. Pipe Line Co.)
 Pop. dist. supplied, 20,000. No. meters, 1,357.
 Miles of mains, approximate, 30.
 Price gas, 1903: Light and fuel, gross \$1.60; net \$1.50 to \$1.25.
 No. public lamps, 16; all Welsbachs.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 24,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2.4 in.
 Gas stoves in use, 790.
 Supplies Dedham and Hyde Park.

Ipswich Gas Light Co., Ipswich.

Capital stock, \$16,000; annual div., 7 p. c.
 Bonds, \$8,000; due 1904; interest, 6 p. c.
 President, Theo. F. Cogswell.
 Secretary, Geo. E. Farley.
 Treasurer, Geo. E. Farley.
 Purchasing agent, C. W. Brown.
 Manager, C. W. Brown.
 Process manufacture, Kendall (oil).
 Pop. dist. supplied, 5,000. No. meters, 158.
 Miles of mains, approximate, 3.5.
 Price gas, 1903: Light and Fuel, gross \$2.50; net \$2.
 Annual output, approx., 4,251,900 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 25.

Lawrence Gas Co., Lawrence.

Capital stock, \$1,000,000; annual div., 6 p. c.
 Bonds, \$300,000; due, 1920; interest, 4 p. c.
 President, N. H. Emmons.
 Treasurer, R. W. Emmons, 2d.
 Agent, C. J. R. Humphreys.
 Asst. agent, Fred H. Sargent.
 Process manufacture, Coal and Lowe.
 Pop. dist. suppl'd, 80,000. No. meters, 10,274.
 Miles of mains, approximate, 102.

Have you seen **THE WELSBACH SYSTEM OF STREET LIGHTING** in operation? We invite examination and comparison. See advertisement, page xx.

Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
 No. public lamps, 120, including 111 Welsbachs.
 Consumption per burner per hour, 4 c. f.
 Contract includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 2,200.
 Annual output, approx., 261,000,000 c. f.
 Candle-power, 18.9.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2.7 in.
 Gas stoves in use, 6,534.
 Cities supplied: Lawrence, Methuen, North Andover and Andover.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, T. H., Brush, 670 (2,000 c. p.) and 530 (1,200 c. p. arcs capacity).
 Incand. sys., Edison, G. E., 16,000 lamps capac.
 Power generators, 500 kw.
 No. public arcs, 262 (2,000 c. p.); 184 (1,200 c. p.); hours lighted, 4,000.
 No. public incandescents (20 c. p.), midnight, 443; all night, 167.
 Price arc, Public, per year, 2,000 c. p., \$90.
 Price arc, Public, per year, 1,200 c. p., \$80.
 Price incandescent, Public, per year, 20 c. p., 12 P. M., \$16; all night, \$24.
 Price arc, Commercial, per mo., \$5.50 to \$9.
 Price incand., Commercial, per month, 16 c. p., 65c. to \$1; per kw-h., 18c.; disc. 10 p. c.
 Power used, Steam and Water.

Leominster Gas Light Co., Leominster.

Capital stock, \$50,000.
 Bonds outstanding, \$50,000; due 1922, int. 5 p. c.
 President, Wallace L. Mason.
 Treasurer, Geo. M. Rossman.
 Superintendent, Fred. F. Brockington.
 Process manufacture, Lowe.
 Pop. of town, 15,000. No. meters, 678.
 Miles of mains, approximate, 13.
 Price gas, 1903: Light and Fuel, gross \$2; net \$1.80.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 358.
 Supplies Leominster.

Lexington Gas and Electric Co., Lexington.

Capital stock, \$35,000.
 Bonds, \$25,000; due 1920; interest, 5 p. c.
 President, Ellery I. Garfield.
 Secretary, John A. Sweetser.
 Treasurer, Chas. H. Miles.
 Pur. agt. and supt., Chas. H. Miles.
 Proc. manf., Hanlon (oil with 25 p. c. air).
 Pop. dist. supplied, 3,800. No. meters, 133.
 Miles of mains, approximate, 3.
 Price gas, 1903: Light, gross \$5; net \$4.
 Annual output, approx., 734,900 c. f.
 Candle-power, 27.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 22.
 Supplies Lexington.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 50 (1,200 c. p.) arcs capacity.
 Incand. system, T. H., 5,500 lamps capacity.
 No. public arcs, 39; hours lighted, 1,600.
 No. public incand. 201 (32 c. p.) hours lighted, 1,600.
 Price arc, Public, per year, \$75.
 Price incand., Public, per year (32 c. p.), \$16.
 Price incand., Commercial, per kw-h., 25c. disc. 5, 10 and 15 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$5.25.

Lowell Gas Light Co., Lowell.

Capital stock, \$800,000; annual div., 8 p. c.
 President and gen'l mgr., Geo. S. Motley.
 Clerk, Samuel E. Raymond.
 Treasurer, George W. Brothers.
 Purchasing agent, W. A. Parkhurst.
 Consulting Supt., George W. Farnham.
 Superintendent, Thomas H. Hintze.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 101,000. No. meters, 15,082.
 Miles of mains, approximate, 135.
 Price gas, 1903: Light, gross \$1.10; net 90c.
 No. public Welsbach lamps, 1,231.
 Consumption per burner per hour, 3 c. f.
 Contract does not include repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 2,112.
 Annual output, approx., 501,122,000 c. f.
 Candle-power, 18.7.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 5,912.
 Cities supplied: city of Lowell; towns of Chelmsford, Dracut and Tewksbury.

Lynn Gas and Electric Co., Lynn.

Capital stock, \$575,000; annual div., 10 p. c.
 President, Charles H. Newhall.
 Clerk and treasurer, Eugene B. Fraser.
 General manager, Charles F. Prichard.
 Supt. electric dept., W. P. Hazletine.
 Process manufacture, Coal, Lowe.
 Pop. dist. supplied, 80,000. No. meters, 10,759.
 Miles of mains, approximate, 83.
 Price gas, 1903: Light and Fuel, gross \$1.10; net 90c.
 Annual output, approx., 285,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 4,708.
 Cities supplied: Lynn, Swampscott and Saugus.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, T. H., Brush, 805 (2,000 c. p.) and 400 (1,200 c. p.) arcs capacity.
 Incand. system, T. H., 37,000 lamps capacity.
 No. public arcs, 220 (1,200 c. p.) and 294 (2,000 c. p.) hours lighted, 3,982.
 No. public incand., 1,200; hours lighted, 3,273.
 Price arc, Public, per year, (1,200 c. p.) \$67; (2,000 c. p.) \$109.50.
 Price incand., Public, per year, (25 c. p.) \$17.

The perfection of the service rendered where the IMPROVED **Welsbach STREET LIGHT** is in use has been particularly noted. See advertisement, page xx.

Price arc, Com'l, per mo., \$5 to \$8 (2,000 c. p.)
 Price incand., Com'l, per kw-h., 9c. to 13c.
 Power used, Steam.

Malden and Melrose Gas Light Co., Malden.

Capital stock, \$405,000; annual div., 6 p. c.
 President, Frank E. Chandler.
 Clerk, C. E. Dolley.
 Treasurer, Charles E. Dolley.
 Purchasing agent, Frank E. Chandler.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 100,000. No. meters, 7,617.
 Miles of mains, approximate, 120.
 Price gas, 1903: Light and Fuel, gross \$1.40;
 net \$1.20.

Annual output, approx., 150,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 1,500 estimated.
 Cities supplied: Malden, Melrose, Medford
 and Everett.

Marblehead Gas and Electric Light Co., Marblehead.

Capital stock, \$20,000.
 Bonds outstanding, \$10,000.
 President, J. E. Aldred.
 Treasurer, Chas. F. Prichard.
 Engineer, S. E. Gillette.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 307.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light and Fuel, gross \$2.50;
 net \$2.
 Annual output, approx., 4,500,000 c. f.
 Candle-power, 17.6.
 No. gas stoves in use, 128.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.5 in.

Marlboro Gas Light Co., Marlboro.

Capital stock, \$65,000; annual div., 5 p. c.
 Bonds outstanding, \$50,000; year due, 1933;
 interest, 5 p. c.
 President, H. F. Hurlburt.
 Secretary and treas., F. P. Cabot.
 Gen. manager and pur. agent, C. W. Morse.
 Process manufacture, Coal.
 Pop. dist. supplied, 14,000. No. meters, 835.
 Miles of mains, approximate, 25.
 Price gas, 1903: Light, gross \$2; net \$1.75.
 Fuel, gross \$2; net \$1.50.
 Annual output, approx., 15,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 573.
 Supplies Marlboro.

Middleboro Gas and Electric Plant, Middleboro.

(Owned by the city.)
 Bonds, \$62,500; due annually; int., 4 p. c.
 Mgr. and pur. agt., Geo. A. Philbrook.
 Process manufacture, Patton (oil).
 Pop. dist. supplied, 6,900. No. meters, 151.
 Miles of mains, approximate, 3.25.
 Price gas, 1903: Light, gross \$2.75; net \$2.61.
 Fuel, gross \$2.20; net \$2.09.
 Annual output, approx., 1,625,000 c. f.
 Candle-power, 26.

Proportion sold for fuel purposes, 18 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 11.
 Supplies Middleboro.

ELECTRICAL DEPARTMENT.

(Owned and operated by the city.)
 Arc system, T. H. 75 (1,200 c. p.) arcs capac.
 Incand. system, G. E., 2,650 lamps capacity.
 No. public arcs, 24; lighted, 1,288 and 2,285 hrs.
 No. public incand., 173; hours lighted, 1,281.
 Price arc, Com'l, per year, \$60.
 Price incand., Com'l, per kw-h., 15c.; disc. 5c.
 Power used, Water, Steam and Gasoline.
 Cost boiler Coal per ton, \$5.25.

Milford Gas Light Co., Milford.

Capital stock, \$72,300; annual div., 10 p. c.
 President, J. B. Bancroft.
 Secretary, H. C. Tilden.
 Treasurer, B. E. Harris.
 Superintendent, E. J. Nutter.
 Process manufacture, Coal.
 Pop. dist. supplied, 13,000. No. meters, 659.
 Miles of mains, approximate, 8.
 Price gas, 1903: Gross \$1.70; net, \$1.65.
 Annual output, approx., 12,302,200 c. f.
 Candle-power, 17.
 Gas stoves in use, 78.
 Cities supplied: Milford and Hopedale.

Nantucket Gas and Electric Co., Nantucket.

Capital stock, \$50,000.
 President, Almon T. Mowry.
 Secretary and treasurer, John W. Cawley.
 Manager and pur. agent, E. A. Chapel.
 Process manufacture, Coal.
 Pop. dist. supplied, 3,000. No. meters, 157.
 Miles of mains, approximate, 4.
 Price gas, 1903: Light and Fuel, gross \$2.50;
 net, \$2.
 Annual output, approx., 2,500,000 c. f.
 Proportion sold for fuel purposes, 5 p. c.
 Candle-power, 18.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 25.
 Supplies Nantucket.

ELECTRICAL DEPARTMENT.

(Operated under name of Nantucket Electric Co.)

Arc system, T. H. 70 (1,200 c. p.) arcs capac.
 Incand., T. H., West's, 3,000 lamps capac.
 No. public arcs, 27 (1,200 c. p.); lighted moon
 scale.
 No. public incand., 60; lighted moon scale.
 Price arc public per year, \$60.
 Price incand. public per year (16 c. p.) \$15.
 Price arc, Com'l, per month, (1,200 c. p.) \$8.50.
 Price incand., Com'l per month, (16 c. p.) 83c.
 \$1 and \$1.50; per kw., gross, 20c., disc.
 10 p. c.
 Power used, Steam.
 Cost boiler coal, per ton, \$5.50.

Natick Gas Light Co., Natick.

Capital stock, \$20,000; annual div., 6 p. c.
 President, Harrison Harwood.
 Secretary and treasurer, Robert Harwood.

"The metropolitan appearance of the lamp itself, together with the clear, white, steady, powerful light, put the **Welsbach** clear in the lead of anything on the market to-day for the purpose of street lighting."

(Signed) W. W. BINGHAM, President, City Council, Omaha.

See advertisement, page xx.

Superintendent, N. O. Goulding.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 770.
 Miles of mains, approximate, 6.5.
 Price gas, 1903: Light, gross \$2; net \$1.50.
 Fuel, gross \$1.90; net \$1.50.
 No. public lamps, 5. Price per year, \$19.
 Consumption per burner per hour, 5 c. f.
 Price does not include repairs, care, lighting
 nor extinguishing.
 No. hours lamp is lighted per year, 3,000.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 18.5.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, 510.
 Supplies Natick.

ELECTRICAL DEPARTMENT.

(Plant sold to Edison Elec. Co. of Boston.)

New Bedford Gas and Edison Light Co., New Bedford.

Capital stock, \$845,000; quarterly div., 2 p. c.
 President, George R. Stetson.
 Treasurer, Charles R. Price.
 Purchasing agents, Messrs. Stetson and Price.
 Gen'l manager, George R. Stetson.
 Process manf., Coal and Lowe (improved).
 Pop. dist. supplied, 72,000. No. meters, 6,117.
 Miles of mains, approximate, 53.
 Price gas, 1903: Light gross \$1.30; net \$1.10 to
 \$1.20.
 No. public Welsbach lamps, 1,293.
 Consumption per burner per hour, 4 c. f.
 No. hours lamp is lighted per year, 3,900.
 Annual output, approx., 150,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 38 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, about 3,200.
 Cities supplied: New Bedford, Fairhaven
 and Amherst.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
 gas company.)

Arc syst. Gen. Elec., 300 (1,200 c. p.) arcs capac.
 Incand. system, Edison, West'se, 38,000 lamps.
 No. public arcs, 213; hours lighted, 3,900.
 No. public incand., 158, lighted 3,900 hours.
 Price arc, Public, per year, \$98.
 Price arc, Commercial, per kw. 18c.
 Price incand., Public, per yr., 16 c. p., \$29.
 Price incand., Com'l, 16 c. p., per kw-h. 18c.;
 disc., 5, 10 and 20 p. c.
 Power used, Steam.
 Cost boiler coal per ton, varies.

Newburyport Gas and Electric Co., Newburyport.

Capital stock, \$140,000; annual div., 5 p. c.
 President, Sidney W. Winslow.
 Treasurer, A. W. Rogers.
 Purchasing agent, C. S. Spaulding.
 Superintendent, C. S. Spaulding.
 Process manufacture, Coal.
 Pop. dist. supplied, 14,500. No. meters, 1,000.
 Miles of mains, approximate, 18.
 Price gas, 1903: Gross \$1.60; net \$1.50.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 18.

Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 400.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
 gas company.)

Arc system, Gen'l Elec., 200 (1,200 c. p.) arcs
 capac.
 Incand. system, Gen'l. Elec. 1,800 lamps capac.
 Power generators, 50 kw. capac.
 No. public arcs, 160; hours lighted, 1,800.
 No. public incandescents, 14.
 Price arc, Public, per year, \$73.50.
 Price arc, Commercial, per month, \$5 to \$8.
 Price incand. Public, per year, 25 c. p. \$30.
 Price incand., Com'l, per mo., 16 c. p., \$1; 20
 c. p., \$1.25; 32 c. p., \$2, per kw-h., 20c.; disc.
 10, 20 and 25 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.50.

Newton and Watertown Gas Light Co., Newton.

Capital stock, \$300,000; annual div., 8 p. c.
 Bonds, \$90,000; due 1910 and 1920; int., 4 p. c.
 President, Chas. L. Edgar.
 Secretary, Francis Murdock.
 Treasurer, Francis Murdock.
 Purchasing agent, Waldo A. Learned.
 General superintendent, Waldo A. Learned.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 39,000. No. meters, 5,408.
 Miles of mains, approximate, 106.
 Price gas, 1903: gross \$1.30; net \$1.15.
 No. public lamps, 938. Price per year, \$16.
 Consumption per burner per hour, 4 c. f.
 Price includes repairs, care, lighting and
 extinguishing.
 No. hours lamp is lighted per year, 2,200.
 Annual output, approx., 153,000,000 c. f.
 Candle-power, 18.32.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,639.
 Cities supplied: Newton, Wellesley, Water-
 town and part of Weston.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
 gas company.)

Arc system, T. H., 335 (1,200 c. p.) arcs capac.
 Incand. system, T. H., 14,600 lamps capacity.
 No. public arcs, 217; hours lighted, 4,000.
 No. public incand., 1,457; hours lighted, 2,200.
 Price arc, Public, per year, \$100.
 Price incand., Public, per year, (25 c. p.) \$16.
 Price incand., Commercial, per kw-h., 20c;
 disc. 10 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.50.

North Adams Gas Light Co., North Adams.

Capital stock, \$100,000.
 President, H. T. Cady.
 Secretary, E. A. Richardson.
 Treasurer, Frank S. Richardson.
 Purchasing agent, Frank E. Curtis.
 Superintendent, Frank S. Richardson.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 25,000. No. meters, 2,100.

THE **Welsbach** SYSTEM distributes the light over all portions of the
 area illuminated. See advertisement, page xx.

Miles of mains, approximate, 27.
 Price gas, 1903: Light, gross \$1.50; net \$1.35.
 Fuel, gross \$1.20; net \$1.08.
 Annual output, approx., 73,000,000 c. f.
 Candle-power, 19.4.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 1,350.
 Supplies North Adams, Adams and Williams-town.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Brush, 800 (2,000 c. p.) arcs capac.
 Incand. system, Stanley, 17,000 lamps capac.
 Power generators, 200 kw. capac.
 No. public arcs, 200 (2,000 c. p.); hours lighted, 4,000.
 No. public incand., 40; lighted 4,000 hours.
 Price arc, Public, per year, \$85.77.
 Price incand., Public, per year, \$44.20.
 Price arc, Com'l, per night to 12 P. M., 18 to 27c.
 Price incand., Com'l, per mo., 16 c. p., \$1; per kw-h., 10c., 12c., 14c., 15c., with 10 p. c. discounts.
 Power used, Steam.
 Cost boiler fuel per gross ton, \$4.

Northampton Gas Light Co., Northampton.

Capital stock, \$75,000; annual div., 8 p. c.
 President, Charles N. Clark.
 Secretary, E. H. Banister.
 Treasurer, E. H. Banister.
 Asst. treas., R. M. Starkweather.
 Purchasing agent, H. C. Crafts.
 Superintendent, H. C. Crafts.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 1,600.
 Miles of mains, approximate, 22.
 Price gas, 1903: Light and Fuel, gross \$1.70; net \$1.40.
 No. public Welsbach lights, 136; lighted 2,500 hours per year.
 Annual output, approx., 38,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 850.
 Supplies Northampton.

North Attleboro Gas Light Co., North Attleboro.

Capital stock, \$68,100.
 President, H. F. Barrows.
 Secretary, Chas. H. Randall.
 Treasurer, Chas. H. Randall.
 Purchasing agent, F. A. Manter.
 Superintendent, W. B. Knight.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,700. No. meters, 540.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light and Fuel, gross \$1.75; disc. 25c., 50c. and 60c.
 Public lamps in town clock, 8, free.
 Annual output, approx., 19,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 250.
 Cities supplied: North Attleboro and Wrentham.

Norwood Gas Light Co., Norwood.

Capital stock, \$12,000.
 President, George H. Morrill.
 Secretary, E. J. Shattuck.
 Treasurer, E. J. Shattuck.
 Purchasing agent, E. J. Shattuck.
 Superintendent, George H. Morrill, Jr.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,480. No. meters, 217.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$2.25; net \$1.75.
 No. public lamps, 138. Price per 1,000, \$2.34.
 Consumption per burner per hour, 3 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Lighted to 12:30, 25 nights per month.
 Annual output, approx., 9,026,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 12.

Pittsfield Coal Gas Co., Pittsfield.

Capital stock, \$190,000; annual div., 6 p. c.
 President, Robt. W. Adam.
 Secretary, William L. Adam.
 Treasurer, H. A. Dunbar.
 Gen. mgr. and pur. agent, Ralph Woodward.
 Process manufacture, Lowe and Coal.
 Pop. dist. supplied, 25,000. No. meters, 2,400.
 Miles of mains, approximate, 37.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.35.
 Annual output, approx., 60,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas ranges in use, 1,500.
 Supplies Pittsfield and Dalton.

Plymouth Gas Light Co., Plymouth.

Capital stock, \$40,000.
 President, Gorham Rogers.
 Secretary, A. Parker Browne.
 Treasurer, A. Parker Browne.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,592. No. meters, 397.
 Miles of mains, approximate, 4.
 Price gas, 1903: Light and Fuel, gross \$2.50. av. \$1.91.
 Annual output, approx., 6,824,000 c. f.
 Candle-power, 17.8.
 Gas stoves in use, 180.
 Lowest pressure for gas stoves, 1.9 in.
 Gas stoves in use, 250.

Citizens Gas Light Co., Quincy.

Capital stock, \$33,000.
 President, C. W. Morse.
 Secretary, John Cushman.
 Treasurer, John Cushman.
 Purchasing agent, C. W. Morse.
 Superintendent, John E. Lennon.
 Process manufacture, Coal.
 Pop. dist. supplied, 25,000. No. meters, 545.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light and Fuel, gross and net \$2.
 No. public lamps, 67. Price per year, \$20.

Owing to the shape of the Welsbach Mantle, the illumination of the street from an IMPROVED **Welsbach STREET LIGHT** is equal in every direction. This is not the case with other methods of lighting. See advertisement, page xx.

Consumption per burner per hour, 5.5 c. f.
 Price includes repairs, care, lighting and
 extinguishing.
 Lighted from 6 to 12 P. M.
 Annual output, approx., 11,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 263.
 Supplies Quincy.

Wakefield Municipal Light Plant, Reading.
 (See Wakefield.)

Suburban Gas and Electric Co., Revere.

Capital stock, \$453,000.
 President, C. H. Tenney.
 Vice-President, F. P. Royce.
 Secretary, H. P. Wood.
 Treasurer, A. B. Tenney.
 Superintendent, A. E. Bliss.
 Gas purchased from East Boston Gas Co.
 Pop. dist. supplied, 18,000. No. meters, 1,250.
 Miles of mains, approximate, 25.
 Price gas, 1903: Light and fuel, gross \$1.40;
 net \$1.15.
 Annual output, approx., 24,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 80 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,000.
 Cities supplied; Revere and Winthrop.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Capacity, 237 arcs.
 Power generator, 1,000 kw.
 No. public arcs (2,000 c. p.), 201; hours lighted,
 moon scale.
 No. public incand., (25 c. p.) 308; lighted
 moon scale.
 Price arc, Public, per year, \$80 to \$90.
 Price incand., Public, per year, \$16.50 to
 \$21.50.
 Price arc, Com'l, per mo. until 12 p. m., \$10.
 Price incand., Com'l, per kw., 20c., disc.
 10 p. c.
 Power used Steam.
 Cost boiler fuel, per ton, \$5.

Salem Gas Light Co., Salem.

Capital stock, \$350,000; annual div., 6 p. c.
 President, Henry A. Hale.
 Secretary, Benj. W. Sluman.
 Treasurer, Benj. W. Sluman.
 General manager, C. F. Prichard.
 Superintendent, George W. Mansfield.
 Process manufacture, Coal.
 Pop. dist. supplied, 47,000. No. meters, 4,500.
 Miles of mains, approximate, 44.
 Price gas, 1903: Light and Fuel, gross \$1.45;
 net \$1.25.
 Annual output, 94,000,000 c. f.
 Candle-power, 17.
 Lowest pressure for gas stoves, 2 in.
 Cities supplied: Salem, Peabody.

Southbridge Gas and Electric Co., Southbridge.

Capital stock, \$50,000; annual div., 4 p. c.
 Bonds, \$25,000; due 1910; interest, 5 p. c.
 President, H. C. Cady.

Secretary, G. W. Corey.
 Treasurer, G. W. Corey.
 Purchasing agent, Andrew F. Hall.
 Superintendent, Andrew F. Hall.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,200. No. meters, 330.
 Miles of mains, approximate, 2.8.
 Price gas, 1903: Light, \$2.25; Fuel, \$1.50.
 No. public lamps, 1. Price per year, \$30.
 Consumption per burner per hour, 6 c. f.
 Price does not include lighting and extin-
 guishing.
 Lighted each and every night.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 23.8.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 84.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Gen. Elec., 100 (1,200 c. p.) arcs
 capacity.
 Incandescent system, 2,650 lamps capacity.
 No. public arcs, 68; lighted moon scale to
 12 P. M.
 No. public incandescents, 25 c. p., 102; 64 c. p.,
 8; lighted moon scale to 12 P. M.
 Price arc, Public, per year, \$76.65.
 Price arc, Commercial, 20c. per kw.
 Price incand., Public, per year, 25 c. p.,
 \$15.50; 64 c. p., \$38.68.
 Price incand., Com'l, per year, \$10 to \$12;
 per kw-h., 20c.; disc. 5, 10, 15 and 25 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$5.15.

**Framingham Gas, Fuel and Power Co., South Fram-
 ingham.**

Capital stock, \$75,000.
 Bonds, \$55,000; due 1921; interest, 5 p. c.
 President, Walter S. Keene.
 Secretary, and treas. John W. Cawley.
 Purchasing agent, John W. Cawley.
 Superintendent, Frank W. Jennings.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,500. No. meters, 610.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light, gross \$2; net \$1.60.
 Fuel, gross \$2; net \$1.50.
 Annual output, approx., 11,500,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 775.

Spencer Gas Co., Spencer.

Capital stock, \$85,000.
 Bonds, \$59,500; due 1909; interest, 4.5 p. c.
 President, Alfred Clarke.
 Secretary, George F. Howland.
 Treasurer, Addis M. Whitney.
 Purchasing agent, Alfred Clark.
 Superintendent, W. A. Arthur.
 Process manufacture, Lowe.
 Pop. dist. supplied, 8,000. No. meters, 509.
 Miles of mains, approximate, 14.
 Price gas, 1903: Light, gross \$2; net \$1.75.
 Fuel, gross \$2; net \$1.40.
 Annual output, approx., 8,000,000 c. f.

Beware of infringements and imitations. **THE WELSBACH STREET LIGHTING COMPANY OF AMERICA** is the sole proprietor of **THE WELSBACH SYSTEM OF STREET LIGHTING.** See advertisement, page xx.

Candle-power, 21.7.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 327.
 Supplies Spencer.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Gen. Elec., 110 (1,200 c. p.) arcs capacity.
 Incand. system, G. E., 650 lamps capacity.
 No. public arcs, 78; hours lighted, 1,712.
 Price arc, Public, per year, \$78.
 Price arc, Commercial, per night, 31.5c.
 Price incand. Com'l, per kw. gross 20c.; disc. 10 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$5.47.

Springfield Gas Light Co., Springfield.

Capital stock, \$550,000.
 President, Chas. H. Tenney.
 Treasurer, Eugene Milliken.
 Pur. agent and gen'l mgr., F. de V. Thompson.
 Superintendent, D. F. Burritt.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 85,000. No. meters, 11,877.
 Miles of mains, approximate, 107.
 Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
 Annual output, 300,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 55 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, about 8,500.
 Cities supplied: Springfield, W. Springfield and Long Meadow.

Peoples Gas and Electric Co., Stoneham.

Capital stock, \$10,000.
 Bonds, \$45,000; due 1915; interest 5 p. c.
 President, Walter S. Keene.
 Treasurer, John M. Cawley.
 Pur. agent and supt., Levi S. Davis.
 Process manufacture, L. S. Davis Imp. Syst.
 Pop. dist. supplied, 11,000. No. meters, 318.
 Miles of mains, approximate, 9.
 Price gas, 1903: gross \$2.50; av. \$2.
 Annual output, approx., 5,998,100 c. f.
 Candle-power, 18.2.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 4 in.
 Gas stoves in use, 97.
 Cities supplied: Stoneham and Reading.

Stoughton Gas and Electric Co., Stoughton.

Capital stock, \$24,000.
 Bonds, \$18,000; due 1920; interest, 5 p. c.
 President, C. L. Swan.
 Treasurer, L. de P. Cole.
 Purchasing agent, Cabel H. Swan.
 Superintendent, F. S. Barton.
 Process manufacture, Naphtha (oil).
 Pop. dist. supplied, 5,400. No. meters, 178.
 Miles of mains, approximate, 5.5.
 Price gas, 1903: Light and Fuel, gross \$5.50; net \$4.95.
 Annual output, approx., 775,000 c. f.
 Candle-power, 50.

Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 35.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Manhattan, 80 (1,200 c. p.) arcs capacity.
 Incand. system, West's, 2,200 lamps capac.
 Power generators, 140 kw. capacity.
 No. public arcs, 72 (800 c.p.) lighted 1,620 hours.
 Price arc, Public, per year, \$50.
 Price arc, Commercial, per month, \$5.
 Price incand., Com'l, per mo., per kw-h., 20c; discount, 5 to 50 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.65.

Taunton Gas Light Co., Taunton.

Capital stock, \$160,000.
 Bonds \$80,000; due 1921; int. 4 p. c.
 President, John E. Sanford.
 Secretary and pur. agent, Walter T. Soper.
 Treasurer, Walter T. Soper.
 Superintendent, Ralph E. Fish.
 Process manufacture, Coal.
 Pop. dist. supplied, 31,000. No. meters, 2,429.
 Miles of mains, approximate, 35.
 Price gas, 1903: Light and Fuel, \$1.30.
 No. public lamps, 70. Price per 1,000, \$1.30.
 Lighting hours per lamp per annum, 300 nights, from dusk till 1 o'clock.
 Annual output, approx., 67,576,100 c. f.
 Candle-power, 17.5.
 Gas stoves in use, 1,450.
 Supplies Taunton.

Wakefield Municipal Light Plant, Wakefield.

(Owned by city.)
 (Assessed value of plant, \$204,000.)
 Total bonds outstanding, \$153,000; \$3,000 due each year; interest, 4 p. c.
 Municipal Light Board, F. A. Swain, B. A. Wyatt, and E. E. Emerson.
 Manager and pur. agent, Chas. E. White.
 Process manufacture, Coal.
 Pop. dist. supplied, 14,500. No. meters, 640.
 Miles of mains, approximate, 13.
 Price gas, 1904: Light and Fuel, gross \$1.70; net \$1.50.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 18.6.
 Proportion sold for fuel purposes, 45 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 310, 5 engines.
 Cities supplied: Reading and Wakefield.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, T. H., 145 (1,200 c.p.) arcs capacity.
 Incand. system, Gen. Elec., 1,800 lamps capac.
 No. public arcs, 145; lighted 1,624 hours.
 Cost arc, Public, per year, \$62.

WELSBACH STREET LIGHTING COMPANY OF AMERICA:

GENTLEMEN: I am pleased to add my recommendation to your system of street lighting. From my experience of street lighting, particularly in cities where the streets abound in shade trees, I have found it vastly superior to electric lighting, and believe that it is the proper way for lighting all streets. (Signed) HENRY S. KEARNY, Commissioner. City of New York, Department of Public Buildings, Lighting and Supplies.

See advertisement, page xx.

Price incand., Com'l, per kw., 20c.; disc.,
10 p. c.
Power used, Steam.
Cost coal per ton, \$4.68.

Waltham Gas Light Co., Waltham.

Capital stock, \$234,700; annual div. 8 p. c.
Bonds, \$15,000; due 1904; interest, 5 p. c.
President, Nathan Warren.
Secy. and treas., E. P. Smith.
Pur. agt. and supt., Chas. F. Spaulding.
Process manufacture, Coal.
Pop. dist. supplied, 25,000. No. meters, 1,860.
Miles of mains, approximate, 30.
Price gas, 1903: Light and Fuel, gross \$1.35;
net \$1.25.
Annual output, approx., 57,407,400 c. f.
Candle-power, 17.5.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 1,124.
Supplies Waltham.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, T. H., 345 (1,200 c. p.) arcs capac.
Incand. system, T. H., 4,100 lamps capacity.
Power generators, 834.
No. public arcs, 160; hours lighted, 2,408.
No. public incand., 419; lighted 2,445 hours.
Price arc, Public, per year, \$83.95.
Price arc, Com'l, per mo., to 12 P. M., scale \$8
to \$10 for 4 or 6 nights per week; 10 p. c.
disc.
Price incand., Commercial, per kw-h. 20c; 10
p. c. disc.
Power used, Steam.
Cost boiler fuel per ton, \$4.50.

Ware Gas Light Co., Ware.

(Operated and owned by the Otis Company
to supply its cotton mills with gas.)
Agent, George E. Tucker.
Process manufacture, Coal.
Pop. dist. supplied, 8,263. No. meters, 318.
Miles of mains, approximate, 5.45.
Price gas, 1903: Light, \$2. Fuel, \$2.
No. public lamps, 1. Price, \$2 per 1,000.
Consumption per burner per hour, 4 c. f.
Price does not include repairs, care and
lighting.
No. hours lamp is lighted per year, 900.
Annual output, approx., 7,723,002 c. f.
Candle-power, 18.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 233; 2 and 3 hole.
Supplies Ware.

Webster Electric Co., Webster.

Capital stock, \$45,000; annual div. 5 p. c.
Bonds, \$25,000; due 1929; interest, 5 p. c.
President, N. T. Hurlbut.
Secretary, F. W. Johnson.
Treasurer, H. S. Shaw.
Pur. agt. and supt., H. S. Shaw.
Process manufacture, Lowe.
Pop. dist. supplied, 9,000. No. meters, 518.
Miles of mains, approximate, 5.5.
Price gas, 1903: Light, gross \$1.85; net \$1.75.
Fuel, gross \$1.50; net \$1.35.

Annual output, approx., 6,500,000 c. f.
Candle-power, 21.
Proportion sold for fuel purposes, 42 p. c.
Lowest pressure for gas stoves, 2.4 in.
Gas stoves in use, 238.
Cities supplied: Webster and Dudley.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, T. H., 135 (1,200 c. p.) arcs capac.
Incand. system, Ft. Wayne, T. H., 4,000 lamps
capacity.
Power generators, 200.
No. public arcs, 72; hours lighted, 2,000.
No. public incand., 150; hours lighted, 2,000.
Price arc, Public, per year, \$76.
Price incand., Public, per yr., 25 c. p., \$14.50.
Price arc and incand., Com'l, per kw-h., 20c.
Power used, Steam.
Cost boiler fuel per ton, \$5.

Westfield Gas and Electric Light Works, Westfield.

(Owned by city.)
Investment, \$150,000.
Manager, Geo. Pettibone.
Process manufacture, Coal.
Pop. dist. sup., 12,310. No. meters, 874.
Miles of mains, approximate, 13.
Price gas, 1903: Light and Fuel, av. \$1.64.
No. public lamps, 95.
Consumption per burner per hour, 4 c. f.
Price includes repairs, care and lighting.
No. hours lamp is lighted per year, 2,400.
Annual output, approx., 18,150,500 c. f.
Candle-power, 19.4.
Lowest pressure for gas stoves, 1.5 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Schuyler, T. H. and Ft. Wayne,
210 arcs capacity.
Incand. system, Stanley., 1,850 lamps capac.
No. public arcs, 98; lighted till daybreak.
Price arc, Public, per year, \$105.
Price arc, Com'l, per month, \$5 to \$7.75.
Price incand., Com'l, per mo., 60c. to \$1.25.
Power used, Steam.
Cost boiler fuel per ton, \$3.50 to \$4.

Williamstown Gas Co., Williamstown.

Capital stock, \$20,000.
President, C. H. Cutting.
Sec'y and treas., Frank S. Richardson.
Purchasing agent, Frank E. Curtis.
Superintendent, C. A. Roebuck.
Gas purchased from No. Adams Gas Light Co.
Pop. dist. supplied, 3,500. No. meters, 185.
Miles of mains, approximate, 11.
Price gas, 1903: Light, gross \$1.80; net \$1.62.
Fuel, gross \$1.60; net \$1.44.
Annual output, approx., 4,500,000 c. f.
Candle-power, 19.
Lowest pressure for gas stoves, 2.5 in.
Supplies Williamstown.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Current purchased from North Adams Gas
Light Co.

THE WELSBACH STREET LIGHTING COMPANY OF AMERICA will furnish complete plants for the lighting of the streets of cities, the gas being furnished by the gas company. See advertisement, page xx.

No. public arcs (2,000 c. p.) 32; lighted until 2 A. M.

No public incand., 61; lighted until 2 A. M.

Price arc, Public, per year, \$65.70.

Price incand., Public, per year, (32 c. p.) \$18.

Price arc and incand., Com'l, per kw., 12c to 15c; disc. 10 p. c.

Woburn Gas Light Co., Woburn.

Capital stock, \$45,100; annual div., 8. p. c.

President, F. H. Monks.

Secretary, R. J. Monks.

Treasurer, R. J. Monks.

Purchasing agent, R. J. Monks.

Superintendent, John Gilcreast.

Process manufacture, Coal.

Pop. dist. supplied, 6,000. No. meters, 596.

Miles of mains, approximate, 7.5.

Price gas, 1903: gross \$1.60; net \$1.40.

Annual output, approx., 15,190,000 c. f.

Candle-power, 18.2.

Lowest pressure for gas stoves, 2.5 in.
Supplies Woburn.

Worcester Gas Light Co., Worcester.

Capital stock, \$700,000; annual div., 8 p. c.

President, Charles Dudley Lamson.

Secretary and treas., James P. Hamilton.

Purchasing agent, Chas. D. Lamson.

Supt. of works, Dana D. Barnum.

Supt. of distribution, Dana D. Barnum.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 125,000. No. meters, 13,000.

Miles of mains, approximate, 115.

Price gas, 1903: Light gross \$1.20; net \$1.

No. public lamps, 500. Price per 1,000, \$1.10.

Consumption per burner per hour, 3 c. f.

No. hours lamp is lighted per year, 3,900.

Annual output, approx., 375,000,000 c. f.

Candle-power, 19.5.

Lowest pressure for gas stoves, 2.5 in.

MICHIGAN.

Adrian Gas Co., Adrian.

Capital stock, \$75,000.

President, Ernest F. Lloyd.

Secretary, Alfred G. Lloyd.

Treasurer, Ernest F. Lloyd.

Manager and pur. agent Royal Shacklette.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 10,000. No. meters, 1,550.

Miles of mains, approximate, 18.

Price gas, 1903: Light, gross \$1.50; net \$1.40.

Fuel, gross \$1.20; net \$1.10.

Annual output, approx., 20,000,000 c. f.

Candle-power, coal, 18.

Proportion sold for fuel purposes, 50 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 700.

President, Edward M. Deane.

Secretary, H. T. Heald.

Treasurer, Dwight Smith.

Pur. agent and Gen. Manager, H. B. Woles.

Superintendent, Thomas N. Holliday.

Process manufacture, Coal.

Pop. dist. supplied, 16,000. No. meters, 450.

Miles of mains, approximate, 8.

Price gas, 1903: Light, gross \$1.75; net \$1.50.

Fuel, gross \$1.25; net \$1.

Annual output, approx., 6,500,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 25 p. c.

Lowest pressure for gas stoves, 2.5 in.

Gas stoves in use, 80.

Ann Arbor Gas Co., Ann Arbor.

Capital stock, \$200,000.

President, Hon. E. D. Kinne.

Secretary, S. T. Douglas.

Treasurer, H. W. Douglas.

Purchasing agent, H. W. Douglas.

Superintendent, H. W. Douglas.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 14,500. No. meters, 2,441.

Miles of mains, approximate, 16.

Price gas, 1903: Light and Fuel, gross \$1.25; net \$1.

Annual output, approx., 70,000,000 c. f.

Candle-power, 16.

Proportion sold for fuel purposes, 65 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 1,200.

Supplies Ann Arbor.

Battle Creek Gas Co., Battle Creek.

Capital stock, auth., \$200,000; issued, \$192,000.

Bonds outstanding, \$100,000; due 1912.

President, E. Henning.

Secretary, S. L. Frazer, Jr.

Treasurer and gen. mgr., D. H. Frazer.

Purchasing agent, D. H. Frazer.

Supt. of distribution, Paul Challis.

Superintendent of mfg., F. E. Sheriffe.

Alpena Gas Light and Fuel Co., Alpena.

Capital stock, \$100,000.

Bonds, \$75,000; due, 1923; int., 5 p. c.

THE **WELSBACH** STREET LIGHTING COMPANY OF AMERICA can furnish lanterns and fixtures for every possible contingency that may occur! See advertisement, page xx.

Process manufacture, Coal.
 Pop. dist. supplied, 23,000. No. meters, 3,000.
 Miles of mains, approximate, 34.
 Price gas, 1903: Light and Fuel, gross \$1.60 to \$1.20; net, \$1.40 to \$1.
 Annual output, approx., 80,000,000 c. f.
 Candle-power, 17.5.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 2,000.

Bay City Gas Co., Bay City.

Capital stock, \$250,000.
 Bonds outstanding, \$375,000; interest, 5 p. c.
 President, John C. Hewitt.
 Vice-pres., H. D. Walbridge, New York.
 Secretary, H. C. Morris.
 Treasurer, B. C. Cobb.
 Gen. mgr., B. C. Cobb.
 General Superintendent, T. C. Cherry.
 Superintendent, H. C. Morris.
 Process manufacture, Coal.
 Pop. dist. supplied, 30,000. No. meters, 1,650.
 Miles of mains, approximate, 26.
 Price gas, 1903: Light and Fuel, gross, \$1.10; net, \$1.
 Annual output, approx., 30,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2.5 in.

ELECTRICAL DEPARTMENT.

(Sold to Bay City Traction and Electric Co.)

Benton Harbor-St. Joseph Gas Co., Benton Harbor.

Capital stock, \$100,000.
 Bonds, \$150,000; interest, 5 p. c.
 President, K. L. Ames.
 Vice-president, J. S. Morton.
 Secretary, Rufus C. Dawes.
 Treasurer, K. L. Ames.
 Pur. agt. and mgr. J. J. Dickerman.
 Process manufacture, Lowe.
 Pop. dist. supplied, both towns, 15,000.
 No. consumers, 1,500.
 Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.35 to \$1.
 No. public Welsbach lamps, 75.
 Consumption per burner per hour, 3 c. f.
 Contract includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 2,221.
 Annual output, approx., 30,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 2.5 in.

Big Rapids Gas Light and Fuel Co., Big Rapids.

Capital stock, \$25,000.
 Bonds, \$8,000; due 1908; interest, 6 p. c.
 President, A. L. Swisler.
 Secretary, J. Barton.
 Treasurer, D. C. Morrill.
 Purchasing agent and supt., J. M. Calkins.
 Process manufacture, Patton (oil).
 Population, 6,000. No. meters, 225.
 Miles of mains, approximate, 5.
 Price gas, 1903, coal-gas basis: Light, and Fuel, net \$1.25.
 An. output, coal-gas basis, approx., 7,000,000 c. f.

Candle-power, 80.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 50.
 Supplies Big Rapids.

Cadillac Gas Co., Cadillac.

Capital stock, \$50,000.
 Bonds, \$30,000; due 1922; interest, 5 p. c.
 President, D. L. Quirk.
 Secretary, Geo. D. Van Vranken.
 Treasurer, Chas. Smith.
 Pur. agent and supt., J. H. Owens.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,500. No. meters, 275.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$1.50; net \$1.35.
 Fuel, gross \$1.15; net \$1.
 Annual output, approx., 9,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 3.2.
 Gas stoves in use, 160.
 Supplies Cadillac.

Charlotte Gas Light Co., Charlotte.

Capital stock, \$40,000.
 Proprietors, J. H. Findlay and W. P. Engel.
 Superintendent, J. H. Findlay.
 Process manufacture, Lowe and Coal.
 Pop. dist. supplied, 6,000. No. meters, 460.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, gross \$2; net \$1.80.
 Fuel, gross \$1.50; net \$1.35.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 250.
 Supplies Charlotte.

Coldwater Gas Light and Fuel Co., Coldwater.

Capital stock, \$40,000.
 Bonds outstanding, \$3,000; due one every 6 months; interest, 5.5 p. c.
 President, B. H. Calkins.
 Secretary, Geo. C. Turner.
 Treasurer, F. W. Moore.
 Purchasing agent and supt., Geo. C. Turner.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,300. No. meters, 1,000.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$1.75; net \$1.50.
 Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 17,350,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 700.
 Supplies Coldwater.

Detroit Gas Light and Coke Co., Delray.

Capital stock, auth., \$300,000.
 President, Wm. Grief.
 Secretary M. A. Lander.
 Treasurer, M. A. Lander.
 Purchasing agent, W. H. Frost.
 Gen'l manager, W. H. Frost.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 850.

THE IMPROVED **Welsbach** STREET LIGHTING FIXTURES furnish the perfection of street lighting outfits. See advertisement, page xx.

Miles of mains, approximate, 15.
 Price gas 1903: Light, gross \$1.15; net \$1.
 Fuel, gross 90c.; net 80c.
 No. public Welsbach lamps, 100.
 Hours lighted, per year, 3,750.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 400.
 Supplies: Delray, Woodmen and Springwell.

Detroit City Gas Co., Detroit.

Capital stock, \$5,000,000; annual div., 5 p. c.
 Bonds, \$6,000,000; due, 1923; interest, 5 p. c.
 President, Emerson McMillin.
 Secretary, Irvin Butterworth.
 Treasurer, M. W. O'Brien.
 General manager, Irvin Butterworth.
 Purchasing agent, A. P. Ewing.
 Supt. manufacture, B. O. Tippy.
 Supt. distribution, Frank Hellen.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 315,000. No. meters, 69,000.
 Miles of mains, approximate, 420.
 Price gas, 1903: Light, gross \$1.15; net \$1. Fuel,
 gross 90c.; net 80c.
 Annual output, approx., 1,739,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 30,000.
 Supplies Detroit.

Dowagiac Gas and Fuel Co., Dowagiac.

Capital stock, \$50,000.
 President, F. W. Lyle.
 Secretary and supt., Chas. T. Amsden.
 Treasurer, F. W. Lyle.
 Purchasing agent, Henry W. Douglas.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 315.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light and Fuel, gross \$1.50;
 net \$1.35.
 Annual output, approx. 6,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 75 p. c.
 Gas stoves in use, 258.
 Supplies Dowagiac.

City Lighting Plant, Escanaba.

(Owned by the city.)
 Bonds, \$48,000; due 1903; int., 6 and 7 p. c.
 (The above includes both gas and electric
 plants.)
 Supt. and pur. agt., C. E. Smith.
 Process manufacture, Patton (naphtha oil).
 Pop. dist. supplied, 12,000. No. meters, 180.
 Miles of mains, 5.
 Price gas, 1903: Light, gross \$1.50, coal-gas
 equivalent. Fuel, 75c.; disc. 10 to 30 p. c.
 Annual output, 1,476,480 c. f.
 Candle-power, 30.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 6.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 90 (1,200 c. p.) arcs capac.
 Incand. system, West'se, 3,000 lamps capac.
 No. public arcs, 68; lighted by moon scale.
 Price arc, Public, per year, \$102.
 Price arc, Com'l, per month, \$5.25 to \$6.50.
 Price incand., Com'l, per mo., 16 c. p., 45c. to
 75c.; 32 c. p., \$1.30; 50 c. p., \$1.50; 100
 c. p., \$3.
 Power used, Steam.
 Cost boiler fuel per ton, \$7.

City of Flint Gas Light Co., Flint.

Capital stock, \$100,000.
 President, Dr. Jas. C. Willson.
 Secretary, L. Church.
 Treasurer, W. A. Atwood.
 Purchasing agent, L. Church.
 Superintendent, J. G. Hester.
 Process manufacture, Lowe.
 Pop. city, 15,000. No. meters, 1,000.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$1.70; net \$1.25
 to \$1.50. Fuel, gross \$1.10; net \$1.
 Annual output, approx., 27,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.

Grand Haven Gas Works, Grand Haven.

(Co-partnership of Wm. H. Loutit and Ste-
 phen L. Munroe.)
 Superintendent, David Willet.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 425.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, net \$1.50; Fuel, net \$1.30.
 Annual output, approximate, 6,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 33 p. c.
 Gas stoves in use, 180.
 Supplies Grand Haven.

Grand Rapids Gas Light Co., Grand Rapids.

Capital stock, \$1,000,000.
 Bonds, \$1,225,000; due 1915; interest, 5 p. c.
 President, Henry D. Walbridge.
 First vice-pres., Emerson McMillin.
 Second vice-pres. and gen'l mgr., W. M. Eaton.
 Secretary, Glenn R. Chamberlain.
 Treasurer, Mary E. Kearney.
 Purchasing agent, A. G. Schroeder.
 Superintendent, A. F. Traver.
 Engineer, W. H. Barthold.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 92,000. No. meters, 16,000.
 Miles of mains, approximate, 135.
 Price gas, 1903: Light and Fuel, gross \$1.10;
 net 90c., 80c.
 Annual output, approx., 480,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.

Greenville Gas, Electric Light, Power and Fuel Co., Greenville.

(Consolidation of gas and electric companies.)
 Capital stock, \$150,000.
 President, John J. Foster.

THE **Welsbach** STREET LIGHT possesses great economy over any
 other method of street illumination. See advertisement, page xx.

Vice-pres. and mgr.. C. T. Wright.
 Secretary, Claude Hamilton.
 Treasurer and manager, John J. Foster.
 Superintendent, A. T. Bates.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000.
 Miles of mains, approximate, 6.5.
 Price gas, 1903: Light, gross and net \$2. Fuel,
 net \$1.25.
 Annual output, approx., 7,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2.5 in.

ELECTRICAL DEPARTMENT.

(No report).

Hillsdale City Gas Co., Hillsdale.

Capital stock, \$30,000.
 Bonds, \$20,000; due 1921; int. 5 p. c.
 President, Gordon W. Lloyd.
 Secretary, Ernest F. Lloyd.
 Treasurer, Gordon W. Lloyd.
 Superintendent, Robert Seitz.
 Process manufacture, Coal.
 Pop. dist. supplied, 3,500. No. meters, 577.
 Miles of mains, approximate, 5.75.
 Price gas, 1903: Light, gross \$2; net \$1.50.
 Fuel, gross \$1.50, net \$1.
 Annual output, approx., 9,998,400 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 72 p. c.
 Lowest pressure for gas stoves, 2.8 in.
 Supplies Hillsdale.

Holland Gas Co., Holland.

Capital stock, \$200,000.
 Bonds, \$80,000; due, 1923; interest, 5 p. c.
 President, Julius Dick.
 Vice-President, Geo. E. Kollen.
 Secretary, Bascom Parker.
 Treasurer, Bascom Parker.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,000; No. meters, 485.
 Miles of mains, approximate 14.
 Price gas 1903: Light and fuel gross, \$1; net
 95c.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 250.

Ionia Gas Light and Coke Co., Ionia.

Capital stock, \$50,000.
 Bonds outstanding, \$50,000; interest, 5 p. c.
 President, H. B. Webber.
 Sec'y and treas., Chas. D. Ransom.
 Pur. agt. and supt., E. F. Gallagher.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,500. No. meters, 775.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light and Fuel, gross and
 net \$1.25.
 No. public Welsbach lamps, 1.
 No. hours lamp is lighted per year, 2,000.
 Annual output, 18,564,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 475.
 Supplies Ionia City.

Jackson Gas Co., Jackson.

Capital stock, \$250,000.
 Bonds, \$320,000; due 1937; interest, 5 p. c.
 President, H. D. Walbridge.
 First vice-president, N. Potter.
 Second vice-president, Emerson McMillin.
 Secretary, S. E. Wolff.
 Treasurer, C. H. Olmsted.
 General manager, S. E. Wolff.
 Process manf., Coal and Water.
 Pop. dist. supplied, 26,500. No. meters, 4,200.
 Price gas, 1903: Light and Fuel, gross \$1.20;
 net \$1.
 Annual output, approx., 70,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 3,000.
 Supplies Jackson.

Kalamazoo Gas Co., Kalamazoo.

Capital stock, \$400,000.
 Bonds outstanding, \$400,000; interest, 5 p. c.
 President, H. D. Walbridge.
 Vice-president, John J. Knight.
 Secretary and gen. mgr., F. W. Blowers.
 Treasurer, D. H. Haines.
 Purchasing agent, Frank W. Blowers.
 Process manufacture, Coal.
 Pop. dist. supplied, 27,000. No. meters, 3,600.
 Miles of mains, approximate, 36.
 Av. price gas, 1903: Light and Fuel, gross
 \$1.26; net \$1.
 Annual output, approx., 100,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 38 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 2,000.

Lansing Gas Light Co., Lansing.

Capital stock, pref., \$150,000; com., \$150,000.
 Bonds, \$200,000; due 1918; interest, 6 p. c.
 President, J. L. Fulton.
 Secretary, L. E. Walker.
 Treasurer, Beman G. Dawes.
 Purchasing agent, J. L. Fulton.
 Superintendent, G. H. Burnett.
 Process manufacture, Coal and Springer.
 Pop. dist. supplied, 19,000. No. meters, 2,600.
 Miles of mains, approximate, 22.
 Price gas, 1903: Light, gross \$1.30; net \$1.17.
 Fuel, gross \$1.05; net 94.5c.
 Annual output, approx., 50,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 800.

Manistee Gas and Electric Co., Manistee.

Capital stock, \$200,000.
 President, Louis Sands.
 Secretary and treasurer, George W. Burr.
 Superintendent, Frank Huntoon.
 Process manufacture, Oil.
 Pop. dist. supplied, 15,000. No. meters, 146.
 Price gas, 1903: Light and fuel, \$1.50.

THE **Welsbach** STREET LIGHT is a pure white light, unaffected by change of temperature, winds, or other natural disturbances. See advertisement, page xx.

Annual output, approx., 4,700,000 c. f.
Candle-power, 20.
Lowest pressure for gas stoves, 2.4 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Brush, 295 (2,000 c. p.) arcs capac.
Incand. syst., Brush, Ft. Wayne, 6,100 lamps capacity.
No. public arcs, 113; lighted by moon scale.
Price arc, Public, per year, \$70.
Price arc, Commercial, per month, \$5.
Price incand., Com'l, per kw., 10 c.
Power used, Steam.
Cost boiler coal per ton, \$4.

Marquette Gas Light Co., Marquette.

Capital stock, \$100,000.
Bonds, \$125,000; due 1926; interest, 5 p. c.
President, Peter White.
Secretary, W. A. Thompson.
Treasurer, Homer W. McCoy.
Purchasing agent, E. J. Burke.
Superintendent, E. J. Burke.
Process manufacture, Springer and Coal.
Pop. dist. supplied, 12,000. No. meters, 1,020.
Miles of mains, approximate, 15.
Price gas, 1903: Light gross \$1.60; net \$1.50.
Fuel, gross \$1.35, net \$1.25.
Annual output, approx., 18,000,000 c. f.
Candle-power, 19.
Proportion sold for fuel purposes, 45 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, about 440.

Marshall Gas Light Co., Marshall.

Capital stock, \$30,000.
Bonds, \$36,500; due 1923; interest, 5 p. c.
President, B. D. Bowne.
Vice-president, H. W. Douglas.
Secretary, John E. More.
Treasurer, C. E. Gorham.
Pur. agent and supt., Burdette D. Bowne.
Process manufacture, Coal.
Pop. dist. supplied, 7,000. No. meters, 700.
Miles of mains, approximate, 12.
Price gas, 1903; Light and Fuel, gross \$1.50; net \$1.35.
Annual output, approx., 11,000,000 c. f.
Candle-power, 16.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, approx., 900.
Supplies Marshall.

Menominee and Marinette Light and Traction Co., Menominee.

(Absorbed the Menominee River Gas Co.; see Marinette, Wis.)

Manager, Edward Daniell.
Data below for 1902.
Process manufacture, Coal.
Pop. dist. supplied, 13,000. No. meters, 283.
Miles of mains, approximate, 8.
Price gas, 1902: Light, gross \$1.70; net \$1.50.
Fuel, gross \$1.20; net \$1.
Annual output, approx., 7,000,000 to 8,000,000 c. f.
Candle-power, 18.

Proportion sold for fuel purposes, 39 p. c.
Lowest pressure for gas stoves, 1.8 in.

Monroe Gas and Electric Light Co., Monroe.

Capital stock, \$70,000.
President, H. A. Conant.
Secretary, J. C. Sterling.
Treasurer, D. Dansard.
Purchasing agent, J. C. Sterling.
Superintendent, J. C. Sterling.
Process manufacture, Coal.
Pop. dist. supplied, 6,500. No. meters, 700.
Miles of mains, approximate, 15.
Price gas, 1903: Light, gross \$1.60 to \$1.50; net \$1.52 to \$1.43. Fuel, gross \$1; net 95c.
Annual output, approx., 10,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 300.

Mt. Clemens Gas Co., Mt. Clemens.

Capital stock, \$50,000.
Bonds, \$50,000; due 1920; interest, 5 p. c.
President, S. T. Douglas.
Secretary, Wm. G. Smith.
Treasurer, H. W. Douglas.
Purchasing agent, H. W. Douglas.
Superintendent, Emory P. Davis.
Process manufacture, Lowe and Coal.
Pop. dist. supplied, 7,500. No. meters, 607.
Miles of mains, approximate, 9.
Price gas, 1903: Light, gross \$1.50; net \$1.35.
Fuel, gross \$1.25; net \$1.10.
Annual output, approx., 14,000,000 c. f.
Candle-power, 17.
Proportion sold for fuel purposes, 55 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 380.
Supplies Mt. Clemens.

Mt. Pleasant Light and Fuel Co. Mt. Pleasant.

(In course of construction.)

Capital stock, \$75,000.
President, N. J. Brown.
Secretary, F. W. Hughes.
Treasurer, F. W. Hughes.
Superintendent, L. D. Briggs.
Process manufacture, Coal.
Price gas, Light and Fuel, to be, gross \$1.50; net, \$1.35.

Muskegon Traction and Lighting Co., Muskegon.

Capital stock, pref. \$100,000; com., \$600,000.
Bonds, 500,000; due 1931; interest, 5 p. c.
President, F. A. Nims.
Vice-president, Liddon Flick.
Secretary and treasurer, T. S. Barber.
Pur. agent and gen'l mgr., S. A. Freshney.
Supt. of gas dept. F. J. Howden.
Process manufacture, Coal.
Population, 26,000. No. meters, 1,600.
Miles of mains, approximate, 18.
Price gas, 1903: Light, gross \$1.60; net \$1.40.
Fuel, gross \$1.20; net \$1.
Annual output, approx., 25,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 600.
Supplies Muskegon.

"I would state that the **Welsbach** System of Street Lighting that was installed in this city in June, 1898, has proved entirely satisfactory to this Department."

(Signed)

WILLIAM D. LANG, Superintendent of Lamps, Boston, Mass.

See advertisement, page xx.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc and incand. systems, G. E. series alternating. Total capac., 600 kw.
 Power generators, 500 kw.
 No. public arcs, (1,200 c. p.) \$175.
 No. public incandescents, 183.
 Public arcs and incand.; lighted moon scale.
 Price arc, Public, per year, \$76.
 Price incand., Public, per year (16 c. p.), \$12.
 Price incand. arc and Commercial, per kw-h, 12.5c., discounts on sliding scale.
 Power used, Steam.
 Cost of boiler coal per ton, \$2.25.

Negaunee Gas Light Co., Negaunee.

(Principal office, G. A. Rockwell, Oshkosh, Wis.)
 Owner, Thomas Rockwell.
 Superintendent, E. Ethier.
 Process manufacture, Naphtha (oil).
 Pop. dist. supplied, 7,000. No. meters, 117.
 Price gas, 1903: Light, \$1.50. Fuel, 75c.
 Proportion sold for fuel purposes, 4 p. c.
 Lowest pressure for gas stoves, 1.2 in.

Niles Gas Co., Niles.

Capital stock, \$20,000.
 Bonds, \$30,000; due, 1923; int. 6 p. c.
 President, Julius Dick.
 Treas., sec'y, pur. agent, Bascom Parker.
 Superintendent, J. M. Auer.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 500.
 Miles of mains, 8.
 Price gas, 1903: Light, \$1.19; Fuel, 95c.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 300.

Owosso Gas Light Co., Owosso.

Capital stock, \$48,000; annual div., 4 p. c.
 President, C. S. Williams.
 Secretary, S. Dean, Ann Arbor.
 Treasurer, J. C. Lear.
 Purchasing agent, S. Dean.
 Superintendent, August Birk.
 Process manufacture, Lowe.
 Pop. dist. supplied, 5,000. No. meters, 700.
 Miles of mains, approximate, 10.
 Price gas, 1904: Light and Fuel, gross \$1.20; net \$1.15.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 33.3 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 275.
 Supplies Owosso.

Petoskey, Bayview and Northern Gas Co., Petoskey.

Capital stock, \$100,000.
 President, Edward F. Michael.
 Secretary, M. Earl Brackett.
 Treasurer, Emmet Scott.
 Purchasing agent, W. S. Cook.
 Superintendent, Wm. S. Cook.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,000. No. meters, 80.

Miles of mains, approx., 7.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.35.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 25.

Pontiac Light Co., Pontiac.

Capital stock, \$100,000.
 Bonds, \$150,000; due 1930-1932; int. 5 p. c.
 President, Henry D. Walbridge.
 Vice-president, W. H. Morgans.
 Secretary, F. E. Morgans.
 Treasurer, F. E. Morgans.
 Purchasing agent, F. E. Morgans.
 Superintendent, Daniel Driscoll.
 Process manufacture, Lowe and Coal.
 Pop. dist. supplied, 11,000. No. meters, 1,500.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 26,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 55 p. c.
 Lowest pressure for gas stoves, 2.4 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Edison, 12 (1,200 c. p.) capac.
 Incand. system, Edison, 3,600 lamps capac.
 Power generators, 90 kw. capac.
 Per kw., gross, 10c.; disc., 5c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.10.

Port Huron Gas Co., Port Huron.

Capital stock, \$250,000.
 President, James T. Lynn.
 Secretary, E. T. Lynch.
 Treasurer, E. T. Lynch.
 Auditor, A. L. Wilkinson.
 Purchasing agent, J. T. Lynn Co., Detroit.
 Manager, J. C. Sloan.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 22,000. No. meters, 3,800.
 Miles of mains, approximate, 29.
 Price gas, 1903: Light, gross \$1.40; net \$1.25.
 Fuel, gross \$1; net 80c.
 Annual output, approx., 73,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 67 p. c.
 Lowest pressure for gas stoves, 1.8 in.

Saginaw City Gas Co., Saginaw.

Capital stock, \$400,000.
 Bonds outstanding, \$750,000; due, 1916; int. 5 p. c.
 President, H. D. Walbridge.
 Vice-president, Geo. B. Marley.
 Secretary and general manager, B. C. Cobb.
 Treasurer, C. A. Wood.
 Purchasing agent, B. C. Cobb.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 45,000. No. meters, 9,000.
 Miles of mains, 63.
 Price gas, 1903: Light, gross \$1.30 to \$1.40; net \$1.10 to \$1.20. Fuel, gross \$1.20; net \$1.
 Annual output, approx., 146,000,000 c. f.
 Candle-power, 18.

THE INCREASED CANDLE POWER of the Improved **Welsbach** Street Light is all utilized because it is distributed horizontally and below the horizontal plane in every direction. See advertisement, page xx.

Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 4,000.
 Supplies Saginaw.

Mutual Gas Co., St. Johns.

Capital stock, \$12,500.
 President, Charles Fowler.
 Secretary, Edward L. Dooling.
 Treasurer, Edward L. Dooling.
 Purchasing agent, Edward L. Dooling.
 Superintendent, James Hately.
 Process manufacture, Lowe.
 Pop. dist. supplied, 3,500. No. meters, 275.
 Miles of mains, 2.5.
 Price gas, 1903: Light and Fuel, gross and net \$1.50.
 Candle-power, 25.
 Annual output, approx., 4,000,000 c. f.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 1 in.
 Gas stoves in use, 100.
 Supplies St. John's.

Light, Fuel and Power Co., South Haven.

Capital stock, \$40,000.
 Bonds, \$24,000; due 1918; interest, 5 p. c.
 President, A. C. Runyan.
 Secretary and pur. agent, Bascom Parker.
 Treasurer, S. Van Ostrand.
 Superintendent, C. A. Runyon.
 Process manufacture, Coal.
 Population, 4,500. No. meters, 316.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light and Fuel, gross and net, \$1.25.
 Annual output, approx., 6,500,000 c. f.
 Proportion sold for fuel purposes, 75 p. c.
 Lowest pressure for gas stoves, 2.8 in.
 Gas stoves in use, 250.

Stockbridge Light and Fuel Co., Stockbridge.

Capital stock, \$10,000.
 President, Leroy Hall.
 Secretary, A. K. Drain.
 Treasurer, A. K. Drain.
 Process manufacture, Crude Oil.

Traverse City Gas Co., Traverse City.

Capital stock, \$50,000.
 President, Wm. Loudon.
 Secretary, A. V. Friedrich.
 Treasurer, S. Garland.
 Manager, A. V. Friedrich.
 Superintendent, George Eveson.
 Process manufacture, Coal.
 Population, 12,000. Meters, 435.
 Miles of mains, 6.

Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.35.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 180.
 Supplies Traverse City.

ELECTRICAL DEPARTMENT.

(Operated under name of Boardman River Electric Light and Power Co.)

Arc system, T. H., 100 (2,000 c. p.) arcs capac.
 Incand. system, G. E.
 Power generators, 400 kw. capac.
 No. pub. arcs, 66; hours lighted, moonlight.
 Price arc, public per year, \$66.
 Price arc, Commercial per month, \$5.
 Price incand. Com'l per kw., gross 10c.; disc. 10 to 25 p. c.
 Power used, Water.

Wyandotte Light and Fuel Co., Wyandotte.

Capital stock, \$100,000.
 Bonds outstanding, \$60,000; temporary.
 President, Paul Doty.
 Secretary, C. S. Ritter.
 Treasurer, H. B. Stiles.
 Pur. agent and gen'l man'r, Mark A. Ammon.
 Superintendent, Arthur P. Wood.
 Process manufacture, Coal (Western Gas Construction Co.)
 Pop. dist. supplied, 12,000. No. meters, 500.
 Miles of mains, approximate, 11.
 Price gas 1903: Light, gross \$1.40; net, \$1.25.
 Fuel, gross \$1.25; net \$1.10.
 Annual output, approximate, 7,000,000.
 Candle-power, 19.
 Lowest pressure for gas stoves, 2.5.
 Gas stoves in use, 200.
 Supplies Wyandotte, Ford City and Ecorse.

Ypsilanti Gas Co., Ypsilanti.

Capital stock, \$40,000.
 President, Samuel T. Douglas.
 Secretary and treas., Henry W. Douglas.
 Purchasing agent, Benj. C. Robinson.
 Superintendent, Benj. C. Robinson.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,500. No. meters, 1,300.
 Miles of mains, approximate, 11.
 Price gas, 1903: Light and Fuel, gross \$1.25; net \$1.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2.6 in.

MINNESOTA.**Adams Gas Works, Adams.**

(Municipal.)
 Process manufacture, crude oil.
 Mains approx., 1 mile.
 Price gas, per 1,000 c. f., \$1.50.
 No. pub. lamps, 25.
 Consumption per burner, per hour, 3 c. f.
 Candle-power, 30.

Albert Lea Light and Power Co., Albert Lea.

(New company.)
 Capital stock, \$100,000.
 Superintendent, B. J. Shockley.
 Process manufacture, Lowe.
 Supplied Albert Lea.
 Also operates electric and heating plants.

Welsbach Street Lighting Co. of America

Water and Light Department, Duluth.

(Owned by the city.)

Bonds, \$420,000; 30 year; int., 4 and 5 p. c.

President, Hansen E. Snively.

Sec'y and mgr., L. N. Case.

Treasurer, City Treasurer.

Pur. agent and supt., L. N. Case.

Process manufacture, Lowe (Imp.).

Pop. dist. supplied, 30,000. No. meters 2,418.

Miles of mains, approximate, 44.

Price gas, 1903: Light and Fuel, gross \$1.05; net 90c.

Annual output, approx., 85,000,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 2.4 in.

Gas stoves in use, 1,000.

Supplies Duluth.

Zenith Furnace Co., Duluth.

Capital stock, \$600,000.

Bonds, \$350,000; interest, 5.5 p. c.

President, A. B. Wolvin.

Secretary, J. L. Washburn.

Treasurer, A. B. Wolvin.

Pur. agent and gen. man'r, C. W. Andrews.

Process manufacture, Otto Hoffman Coke Oven.

Pop. dist. supplied, 100,000.

Annual output, approximate, 400,000,000 c. f.

Supplies City of Duluth Water and Light Department and Superior Water, Light and Power Co.

Faribault Gas and Electric Co., Faribault.

Capital stock, \$250,000.

President, S. M. Hamill.

Secretary and treas., B. W. Cowperthwait.

Supt. and pur. agt., B. W. Cowperthwait.

Process manufacture, Lowe.

No. meters, 350.

Miles of mains, approximate, 7.

Price gas, 1903: Light, gross \$2; net \$1.80.

Fuel, gross, \$2; net \$1.60. Power, \$1.20.

Annual output, approx., 9,500,000 c. f.

Candle-power, 20.

Proportion sold for fuel purposes, 40 p. c.

Lowest pressure for gas stoves, 1.8 in.

Gas stoves in use, approximate, 125.

Supplies Faribault.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 20 (1,200 c. p.) arcs capac.

Incand. system, T. H., 2,500 lamps capacity.

Price arc and incand., Com'l, per kw-h., 11c; disc. 10 p. c.

Power used, Steam and Gas Engine.

Cost boiler fuel per ton, \$4.

Mankato Gas and Electric Light Co., Mankato.

Capital stock, \$150,000.

Bonds outstanding, \$170,000; interest, 5 p. c.

President, H. A. Patterson.

Secretary, R. E. Brown.

Treasurer, R. E. Brown.

Superintendent, R. E. Brown.

Process manufacture, Coal and Springer.

Pop. dist. supplied, 8,000. No. meters, 900.

Miles of mains, approximate, 12.

Price gas, 1904: Light, gross \$1.50; net \$1.40.

Fuel, net \$1.25.

Annual output, approx., 36,000,000 c. f.

Candle-power, 23.

Proportion sold for fuel purposes, 50 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 700.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Gen. Elec. 400 (2,000 e. p.) arcs capacity.

Incand. system, Gen. Elec., 6,000 lamps capac.

Power generators, 350 kw.

No. public arcs, 125; Phila. sched.

Price arc, public, per year, \$65.

Price arc, Commercial, per mo., \$3.50 to \$5.

Price incand., Com'l, per kw. gross. 10c.

Power used, Gas Engines.

Minneapolis Gas Light Co., Minneapolis.

Capital stock, \$800,000; annual div., 8 p. c.

Bonds, \$3,000,000; due, 1910 and 1930; int., 6 p. c.

Vice-president, A. T. Rand.

Secretary, W. H. Levings.

Treasurer, Rufus R. Rand.

Superintendent, F. C. Shephard.

Process manufacture, Lowe and Coal.

Pop. dist. supplied, 250,000.

No. meters, 20,037.

Price gas, 1903: Light and Fuel, gross \$1.40 net \$1.20.

No. public lamps, 5,400; incl. 2,500 Welsbachs.

Price gas per 1,000 (open flame), 95c.

Consumption per burner; per hour, 4 cu. ft.

Price lighting, extinguishing, care and repairs, per year, \$4.

Lighted all and every night.

Candle-power, 25.

Lowest pressure for gas stoves, 1.6 in.

Supplies Minneapolis.

Owatonna Gas, Electric and Heating Co., Owatonna.

Capital stock, \$100,000.

Bonds, \$100,000; due 1921; interest, 5 p. c.

President, C. W. Barrett.

Vice-president, A. J. Stahl.

Sec'y and treas., H. H. Herrick.

Pur. agent and mgr., E. G. Porter.

General manager, C. L. Powell.

Process manufacture, Acme (oil gas).

Supply business section.

Miles of mains, approximate, 3.

Price gas 1903: Light, \$2. Fuel, \$1.25.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 100 (1,200 c. p.) arcs capac.

Incand. system, T. H., West's, 4,000 lamps cap.

No. public arcs, 55; hours lighted, 2,900.

Price arc, Public, per year, \$72.

Price arc, Com'l, per month, \$4 and \$6.

Price incand., Com'l, per mo., 50c. to \$1.25; kw-h., 20c.

Power used, Steam.

Cost boiler fuel per ton, \$3.35.

(Operate hot water heating system.)

The **Welsbach** STREET LIGHT is now extensively used on many of the principal streets of New York City. See advertisement, page xx.

Red Wing Gas and Electric Co., Red Wing.

Capital stock, \$65,000.
 Bonds, \$61,500; due 1932; interest, 5 p. c.
 President, J. C. Pierce.
 Secretary, W. R. Putnam.
 Treasurer, W. H. Putnam.
 Mgr. and pur. agt., W. R. Putnam.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 625.
 Miles of mains, approximate, 11.25.
 Price gas, 1903: Light and Fuel, gross \$1.70; net \$1.50.
 Annual output, approx., 17,233,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 75 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 250.
 Supplies Red Wing.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Manh'n series, 60 (1,200 c.p.) arcs capacity.

Incand. system, West'se, 2,700 lamps capac.
 Power generators, 135.
 No. public arcs, 46; hrs. l't'd, 1,880 and 4,000.
 No. public incand., 89; hours lighted, 1,220.
 Price arc, Public, per year, \$88 all night; \$66 midnight.
 Price incand., Public, per year, (16 c. p.), \$15.
 Price arc, Commercial, per month, \$6.
 Price incand., Commercial, per kw-h., 15c; discounts, up to 33.33 p. c.
 Power used, Gas.
 Cost boiler fuel per ton, \$5.40.

Village of Renville Gas Plant, Renville.

(Owned by village.)
 President, W. O. Conner.
 Secretary, T. W. Mason.
 Treasurer, H. N. Stabuck.
 Purchasing agent, Board.
 Process manufacture, Practical (oil).
 Pop. dist. supplied, 1,200. No. meters, 100.
 Miles of mains, approximate, 7.
 Price gas, 1903; \$1.50.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 50.

Rochester Gas Co., Rochester.

Capital stock, \$50,000.
 Bonds outstanding, \$50,000 (serial); int., 5 p. c.
 President, Bert Eaton.
 Secretary, George Granger.
 Pur. agent, Western Gas Inv't Co., Chicago.
 General superintendent, R. S. Fuertado.
 Local superintendent, Emile Ruff.
 Process manufacture, Springer and Coal.
 Pop. dist. supplied, 8,000. No. meters, 300.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$2. Fuel, \$1.50.
 Annual output, approximate, 8,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 100.
 Supplies Rochester.

Slayton Gas Light and Power Co., Slayton.

(Partnership, consisting of Adolph Plich, J. W. Case and Burt J. Wild.)
 Process manufacture, Oil (practical).
 Pop. dist. supplied, 1,000. No. meters, 50.
 Miles of mains, approximate, 3.5.
 Price gas, 1903: Per 1,000 c. f., \$1.75.
 No. public Welsbach lamps, 39.
 Proportion sold for fuel purposes, 33 p. c.
 Supplies Slayton.

Light, Heat, Transit and Public Service Co., St. Cloud.

(Successors to Water, Light and Power Co.)
 Capital stock, \$100,000.
 President, A. G. Whitney.
 Secretary and treas., E. E. Clark.
 Pur. agent and manager, E. E. Clark.
 Process manufacture, Naphtha (oil).
 Expect to put in coal-gas plant summer of 1904.
 Pop. dist. supplied, 10,000.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, G. E., 145 arcs capacity.
 Incand. system, G. E., 12,000 lamps capacity.
 Power generators, 1,040 kw.
 No. public arcs, 63; lighted all and every night.
 Price arc, Public, per year, \$85.
 Price incand., Com'l, per kw., 20c.; disc., 25 and 50 p. c.
 Power used, Water and Steam.
 Cost boiler coal per ton, \$5.25.

St. Paul Gas Light Co., St. Paul.

Capital stock, \$1,500,000.
 Bonds \$1,250,000; due 1914, 1918; int. 6 p. c., and \$2,714,000; due 1944; int. 5 p. c.
 President, A. P. Lathrop.
 Secretary and treasurer, J. P. Crowley.
 Purchasing agent, H. J. Gille.
 Superintendent dist. dept., E. E. Eysenbach.
 Superintendent manfg. dept., V. L. Elbert.
 Proc. manf., Coal, Lowe and Springer.
 Pop. dist. supplied, 170,000. No. meters, 12,379.
 Miles of mains, approx., 155.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.30.
 No. public Welsbach, lamps, 2,600.
 No. hours lamp is lighted, 4,000.
 Annual output, approx., 486,000,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 1 in.
 Supplies St. Paul.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Manhattan and G. E.
 Incand. system, 93,800 lamps capacity.
 No. public arcs, 450 (420 watt) and 73 d. c.; hours lighted, 3,900.
 Price arc, Public, per year, \$90 and \$100.
 Price arc and incand., Com'l, per kw-h, 6c. to 15c. net. Power per kw., 3 to 11.5c.
 Power used, Water and Steam.
 Cost boiler coal per ton, \$5.

Extract from report of Department of Public Works, New York City:

"I was very much surprised during a recent visit to Paris to discover that the **Welsbach** had superseded electricity on all the grand avenues, especially the Champs Elysees."

See advertisement, page xx.

CHAS. H. T. COLLIS, Commissioner.

Stillwater Gas and Electric Light Co., Stillwater.

Capital stock, \$60,000.
 Bonds outstanding, \$185,000; serial; interest, 5 p. c.
 Bonds just issued, \$325,000.
 President, E. L. Hospes.
 Secretary, Otis Staple.
 Treasurer, Geo. Mayer.
 Purchasing agent, 1028 Tribune Building, Chicago, Ill.
 Gen'l Superintendent, R. S. Fuertado.
 Local Superintendent, N. N. Johnson.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,500. No. meters, 400.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$1.90; net \$1.85.
 Fuel, \$1.50.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 100.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 80 (1,200 c. p.) arcs capac.
 Incand. system, West's, 2,500 lamps capac.
 No. public arcs, 80; hours lighted, 2,185.
 No. public incand., 284; hours lighted, 3,375.

Price arc, Public, per year, \$87.50.
 Price incand., Public, per year, 25 c. p., \$14.
 Price incand., Com'l, per kw., gross 20c.; disc., 5 to 20 p. c.
 Power used, Steam.
 Boiler fuel is mill wood.
 Expect to install new electric plant in Spring, 1904.

Winona Gas Co., Winona.

Capital stock, \$100,000.
 President, H. W. Lamberton.
 Secretary, S. S. Strouse.
 Treasurer, H. W. Lamberton.
 Purchasing agent, S. S. Strouse.
 Superintendent, S. S. Strouse.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 1,300.
 Miles of mains, approximate, 17.
 Price gas, 1903: Light, gross \$2; net \$1.80.
 Fuel, net \$1.25.
 No. public, Welsbach, lamps, 103.
 Consumption per burner per hour, 3 c. f.
 No. hours lamp is lighted per year, 2,000.
 Annual output, approx., 32,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 18 p. c.
 Lowest pressure for gas stoves, 2.3 in.
 Gas stoves in use, 450.

MISSISSIPPI.**Columbus Light and Power Co., Columbus.**

Capital stock, \$76, 000.
 President, W. Weaver.
 Supt. gas dept., E. W. Warring.
 General manager, A. A. Passolt.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,500. No. meters, 160.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$2; net \$1.80.
 Fuel gross, \$1.25; net \$1.12.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 18.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Gen. Elec., 60 (a. c. enclosed.)
 Incand. system, G. E., 3,000 lamps capac.
 Power generators, 200 kw. capac.
 No. public arcs, 60; lighted 4,100 hours.
 Price arc, Public, per year, \$90.
 Price arc, Com'l, per month, \$5 (1,200 c. p.)
 Price incand., Public, per kw., 20c.
 Price incand., Com'l, per kw., 20c.; disc. 20 p. c.
 Power used, Steam.
 Price boiler coal per ton, \$2.

Jackson Gas Light Co., Jackson.

Capital stock, \$250,000.
 President, F. G. Jones.
 Sec'y and treas., S. T. Carnes.
 Gen. mgr., and pur. agent, John Lorenz.
 Superintendent, D. Ward.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 320.

Miles of mains, approximate, 8.
 Price gas, 1903: Light, gross \$2; net \$1.50.
 Fuel, gross \$1.75; net \$1.25.
 Annual output, approx., 4,500,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 15 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 19.

ELECTRICAL DEPARTMENT.

(Business operated as Jackson Electric Railway, Light and Power Co.)

Arc system, Brush, 300 (2,000 c. p.) arcs capac.
 Incand. system, Gen. Elec., 7,500 lamps capac.
 Power generators 25 kw. capac.
 No. public arcs, 137; lighted 4,800 hours.
 Price arc, Public, per year, \$114.
 Per kw., gross 20c.; discount 20 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.55.

Meridian Gas Co., Meridian.

Capital stock, \$150,000.
 President, H. L. McKee.
 Secretary, W. C. Hamilton.
 Treasurer, W. C. Hamilton.
 Purchasing agent, H. L. McKee.
 Superintendent, J. M. McKee.
 Process manufacture, Coal.
 Pop. dist. supplied, 16,000. No. meters, 800.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light and Fuel, gross \$1.50; net, \$1.35.
 Annual output, approx., 18,000,000 c. f.

THE WELSBACH STREET LIGHT possesses absolute immunity from flickering or smoke in the lanterns; also from bugs and other outside obstructions to illumination. See advertisement, page xx.

Candle-power, 20.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 400.

Southern Light and Traction Co., Natchez.

Capital stock, auth., \$500,000.
Bonds, \$500,000; due 1933; interest, 6 p. c.
General manager, S. S. Bullis.

ELECTRICAL DEPARTMENT.

(No report.)

Vicksburg Gas Co., Vicksburg.

(Operated by the United Gas Improvement Co.)
Capital stock, \$134,000.
President, E. S. Butts.
Secretary, W. T. Rose.

Treasurer, E. S. Butts.
Pur. agent, J. A. Pearson, Philadelphia, Pa.
Supt. and agt., T. M. Coughlin.
Asst. supt. and asst. agent, T. J. Spragle.
Process manufacture, Lowe.
Pop. dist. supplied, 17,170. No. meters, 1,900.
Miles of mains, approximate, 13.
Price gas, 1903: Light and Fuel, gross \$1.65; net \$1.50.
No. public lamps, 32. Price per year, \$30.
Consumption per burner per hour, 5 c. f.
Price includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 2,255.
Annual output, approx., 30,679,000 c. f.
Candle-power, 23.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 1.2 in.
Gas stoves in use, 873.

MISSOURI.

Sombart Gas Co., Booneville.

Capital stock, \$30,000; annual div., 12 p. c.
President, W. A. Sombart.
Secretary, W. E. Sombart.
Treasurer, W. E. Sombart.
Purchasing agent, W. A. Sombart.
Superintendent, W. A. Sombart.
Process manufacture, Coal.
Pop. dist. supplied, 5,000. No. meters, 411.
Miles of mains, approximate, 5.
Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.35 to \$1.50.
Annual output, approx., 6,600,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 191.
Supplies Booneville.

ELECTRICAL DEPARTMENT.

(Operated under name, Booneville Electric Light and Power Co.)

Arc system, Brush, 65 (2,000 c. p.) arcs capac.
Incand. system, T. H., 1,300 lamps capacity.
No. public arcs, 41; hours lighted, 2,100.
Price arc, Public, per year, \$87.25.
Price incand., Com'l, per month (16 c. p.), 60c., to 10 P. M.; 80c. to 12 P. M., and \$1 all night; per kw., gross 8c. to 12c.; disc. 1 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$2.50.

Brookfield Gas Electric and Heating Co., Brookfield.

Capital stock, \$50,000.
President, John M. Kiefer.
Secretary and treas., J. O. Peasley.
Purchasing agent, H. H. Stephens.
Superintendent, H. H. Stephens.
Process manufacture, Lowe.
Pop. dist. supplied, 7,500. No. meters, 398.
Miles of mains, approximate, 7.5.
Price gas, 1903: Light, gross \$1.60; net \$1.50.
Fuel, gross \$1.35; net \$1.25.

Annual output, approx., 7,000,000 c. f.
Candle-power, 25.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 311.
Supplies Brookfield.

Carthage Light, Heat and Power Co., Carthage.

Capital stock, \$100,000.
Bonds, \$35,000; due 1918; interest, 6 p. c.
President, S. A. Stuckey.
Vice-pres. and gen. man'r, D. C. Brainard.
Secretary and treasurer, Issac C. Hodson.
Purchasing agent, D. C. Brainard.
Superintendent, J. M. H. Young.
Process manufacture, Coal.
Pop. dist. supplied, 10,000. No. meters, 475.
Miles of mains, approximate, 8.5.
Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.25.
Annual output, approx., 12,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, 225.
Supplies Carthage.

(Electric plant discontinued.)

Peoples Gas and Electric Co., Chillicothe.

Capital stock, \$50,000.
Bonds, \$30,000; due 1911; interest, 6 p. c.
President, C. D. Jones.
Secretary, S. B. Hovey.
Pur. agts., Jones & Hovey Co., Independence, Ia.
Superintendent, F. B. Wheeler.
Process manufacture, Patton (oil).
Pop. dist. supplied, 8,000. No. meters, 300.
Miles of mains, approximate, 8.5.
Price gas, 1903: Light, gross and net \$2.25; Fuel, gross, \$1.65; net, \$1.25.
Annual output, approx., 4,000,000 c. f., coal-gas basis.
Candle-power, 5-ft. burner, 80.

Extract from report of the Chief engineer of Fairmount Park, Philadelphia, in regard to Welsbach Park Lights: "The **Welsbach** Lights with which you are now lighting the great pleasure ground of the city of Philadelphia are giving great satisfaction, adding greatly to the attractiveness of the Park."

See advertisement, page xx.

Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 100.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Woods 80 (2,000 c. p.) and 50 (1,200 c. p.) arcs capacity.
 Incand. system, West's 1,600 lamps capac.
 No. public arcs, 58 (2,000 c. p.); hours lighted, 4,000.
 Price arc, Public, per year, \$65.
 Price arc, Com'l, per month, \$8 and \$6.
 Price incand., Com'l, per mo., (16 c. p.), to 10 P. M., 75c.; 12 P. M., 90c.; all night, \$1.25; per kw., 20c. disc., 10 to 25 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.80.

Clinton Light and Water Co., Clinton.

Capital stock, \$180,000.
 President, J. T. Marsh.
 Secretary, B. Byler.
 Treasurer, J. L. Woolfolk.
 Pur. agent and supt., J. T. Marsh.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,000. No. meters, 375.
 Miles of mains, approximate, 6.5.
 Price gas, 1903: Light, net \$2.25. Fuel, net \$1.50.
 No. public lamps, 2. Price per year, \$30.
 Consumption per burner per hour, 6 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Lighted all night.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 150.
 Supplies Clinton.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 50 (2,000 c. p.) and 50 (1,200 c. p.) arcs capacity.
 Incand. system, T. H., 1,300 lamps capacity.
 No. public arcs, 38; lighted by moon scale.
 Price arc, Public, per year, \$75.
 Price arc, Com'l, per month, 1,200 c. p., \$6; 2,000 c. p., \$10.
 Price incand., Com'l, per month, 16 c. p., 50c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.90.

Columbia Gas Works, Columbia.

(Not incorporated.)
 Owner, The Watts Engineering Co.
 Pur. agent and manager, W. H. Judge.
 Superintendent, J. M. Botts.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,500. No. meters, 200.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light gross, \$3, net, \$2.12. Fuel, gross \$3; net \$1.50.
 Annual output, approx., 5,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 42 p. c.
 Lowest pressure for gas stoves, 1.9 in.
 Supplies Columbia.

Excelsior Springs Light, Power, Heat and Water Co., Excelsior Springs.

President, Wm. A. Bell.
 Secretary and treas., J. E. Landstrom.
 Pur. agent and supt., A. Peters.
 Process manufacture, Naptha (oil):
 Pop. dist. supplied, 3,000. No. meters, 250.
 Miles of mains, approximate, 3.25.
 Price gas, 1903: Light, \$2. Fuel, \$1.50.
 Annual output, approx., 5,110,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 90.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, G. E., 222 arcs capacity.
 Incandescent system, G. E., 2,400 lamps capacity.
 Power generators, 150 kw. capacity.
 No. public arcs, 21. Price arc, per year, \$80.
 Price arc and incand., Com'l, per kw., gross 7c. and 12.5c.
 Power used, Steam.
 Cost boiler coal per ton, \$2.10 to \$3.25.

Hannibal Gas Light and Coke Co., Hannibal.

Capital stock, \$100,000.
 President, Charles Parsons.
 Secretary, Horatio D. Wood.
 Treasurer, Horatio D. Wood.
 Purchasing agent, Charles J. Lewis.
 Superintendent, Charles J. Lewis.
 Cashier, Chas. G. Price.
 Process manufacture, Coal.
 Pop. dist. supplied, 18,000. No. meters, 650.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, gross \$2; net \$1.80. Fuel, gross \$2; net \$1.50.
 Annual output, approx., 13,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1 in.
 Gas stoves in use, 250.

Huntsville Gas and Electric Co., Huntsville.

Capital stock, \$15,000.
 Bonds, \$15,000 (not sold).
 President, J. T. McClanahan.
 Treasurer, M. C. Shreve.
 Secretary, C. H. Shreve.
 Pur. agent and mgr., C. D. Shreve.
 Process manufacture, Coal.
 Pop. district supplied, 3,500. No. meters, 115.
 Miles of mains, approx., 3.
 Price gas, 1903: Light, \$1.50; Fuel, \$1.35.
 No. public lamps, 42. Price per year, \$18.
 Consumption per burner, per hour, 5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, Phila. moonlight scale.
 Annual output approx., 2,500,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 60.

THE **WELSBACH** STREET LIGHTING COMPANY OF AMERICA furnishes a special Park Lamp, which is particularly suitable for the lighting of public parks and boulevards. See advertisement, page XX.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Westinghouse, 27 arcs capacity.
Incand. system, Westinghouse, 1,000 lamps capacity.

Power generators, 50 kw. capacity.

No. public arcs, (1,200 c. p.) 27. Moon scale.

Price arc, Public, per year, \$60.

Price arc, Com'l, per mo. (1,200 c. p.) \$5.

Price incand. Com'l per mo., 50c., 60c., \$1; per kw. gross 20c.; disc. 1 p. c.

Power used, Steam.

Company mines its own coal, selling for 75c. per ton.

Independence Gas and Coke Co., Independence.

Capital stock, \$75,000.

President, G. C. Danforth.

Secretary, L. J. Danforth.

Treasurer, L. J. Danforth.

Purchasing agent, G. C. Danforth.

Superintendent, G. C. Danforth.

Process manufacture, Coal.

Population, 10,000. No. consumers, 480.

Miles of mains, approximate, 13.

Price gas, 1903: Light and Fuel, gross \$1.35; net, \$1.25.

Annual output, approx., 8,387,900 c. f.

Candle-power, 16.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 3 in.

Gas stoves in use, 325.

Supplies Independence.

Jefferson City Light, Heat and Power Co., Jefferson City.

Capital stock, \$100,000.

Bonds outstanding, \$69,000; interest, 4 p. c.

President, Wm. W. Wagner.

Sec'y and treas., Chas. E. Hess.

Pur. agt. and supt., Chas. E. Hess.

Process manufacture, Lowe.

Pop. dist. supplied, 8,000. No. meters, 420.

Miles of mains, approximate, 8.

Price gas, 1903: Light, gross \$2; net \$1.80 to \$1.90. Fuel, gross \$2; net \$1.50.

Annual output, approx., 7,000,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 5 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 18.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Excelsior, 90 (2,000 c. p.) arcs capacity.

Incand. system, Edison, 1,000 lamps capacity.

No. pub. arcs, 70; lighted all and every night.

Price arc, Public, per year, \$65.

Price incand., Commercial, per month, 16 c. p., to 10 P. M., 50c.; all night, 75c.

Power used, Steam.

Cost boiler fuel per ton, \$2.50.

Joplin Gas Co., Joplin.

Capital stock, \$300,000.

President, James T. Lynn.

Secretary, Eugene T. Lynch.

Treasurer, Eugene T. Lynch.

Purchasing agent, James T. Lynn.

Superintendent, J. M. H. Young.

Process manufacture, Coal.

Pop. dist. supplied, 28,000. No. meters, 3,100.

Miles of mains, approximate, 20.

Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.30 to \$1.

Annual output, approx., 51,000,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 40 p. c.

Lowest pressure for gas stoves, 2 in.

Kansas City-Missouri Gas Co., Kansas City.

Capital stock, \$5,000,000.

Bonds, \$4,087,000; due 1922; interest, 5 p. c.

President, Hugh J. McGowan.

Secretary, R. Macmillan.

Treasurer, Lewis Lillie.

Pur. agent, J. A. Pearson, Philadelphia, Pa.

Superintendent, Geo. S. Clarke.

Process manufacture, Lowe.

Pop. dist. supplied, 210,000. No. meters, 23,849.

Miles of mains, approximate, 294.

Price gas, 1903: Light and Fuel, gross \$1.10. net \$1.

No. public lamps, 2,893, inc. 125 Welsbachs.

Price per year, (open flame), \$12.

Consumption per burner per hour, 4 c. f.

Price includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 2,200.

Annual output, approx., 1,003,252,000 c. f.

Candle-power, 24.

Proportion sold for fuel purposes, 50 p. c.

Lowest pressure for gas stoves, 1.8 in.

Gas stoves in use, 35,477.

Supplies Kansas City.

Lexington Gas and Electric Co., Lexington.

Capital stock, \$80,000.

Bonds, \$35,000; due 1908; interest 6 p. c.

President, Charles Reynolds.

Vice-president, C. B. Leach.

Secretary and treas., J. B. Young.

Pur. agent and supt., C. C. Barnard.

Process manf., Coal (& water for emergency).

Pop. dist. supplied, 6,300. No. meters, 299.

Miles of mains, approximate, 8.

Price gas, 1903: Light, gross and net \$2. Fuel, gross and net \$1.25.

Annual output, approx., 5,400,000 c. f.

Candle-power, 17.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 150.

Supplies Lexington.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, W. E., 60 (2,000 c. p.) arcs capac.

Incand. system, Homberger.

Power generators, 215 kw. capacity.

No. public arcs, 47; lighted all night.

Price arc, Public, per year, \$78.

Price arc, Commercial, per month, \$5.50.

Price incand. Commercial, per month, 60c.; per kw. gross 15c.; disc. 20 p. c.

Power used, Steam.

Cost boiler coal per ton, \$2.45.

Extract from report of Brooklyn Parks:

"The **Welsbach** Lights are better adapted for Park Roads, being closer to the ground and free from shadows, and giving a clear, straight, white light." See advertisement, page xx.

Louisiana Gas and Electric Light Co., Louisiana.

Capital stock, \$50,000.
 Bonds, \$25,000; due 1909; interest, 6 p. c.
 President, D. H. Hart.
 Secretary, L. M. Hall.
 Treasurer and pur. agent, D. Turnbolt.
 Superintendent, D. Turnbolt.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,000. No. meters, 310.
 Miles of mains, approximate, 4.5.
 Price gas, 1903: Light and Fuel, gross and net \$1.25.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 18 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 38.
 Supplies Louisiana.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, T. H., 50 (1,200 c. p.); 35 (2,000 c. p.) arcs capacity.
 Incand. system, Warren, 1,500 lamps capac.
 No. public arcs, 33; lighted by moon scale.
 Price arc, Public, per year, \$80.
 Price arc, Commercial, per month, \$5.
 Price incand., Com'l, per mo., (16 c. p.), 12 P. M., 60c.; all night, \$1; per kw-h., 10c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.75.

Macon Gas and Electric Light Co., Macon.

Capital stock, \$24,000; annual div., 12 p. c.
 Bonds outstanding, \$7,000; interest, 6 p. c.
 President, Thomas E. Wardell.
 Vice-president, Harry M. Rubey.
 Secretary, Wm. E. McCully.
 Treasurer, Wm. E. McCully.
 Purchasing agent, Wm. E. McCully.
 Superintendent, N. S. Thompson.
 Process manufacture, Patton (oil).
 Pop. dist. supplied, 3,300. No. meters, 340.
 Miles of mains, approx., 9.75.
 Price gas, 1903; Light, gross, \$2.50, net, \$1.90
 Fuel, gross \$2.50, net \$1.25.
 Annual output, approx., 4,500,000 c. f.
 Candle-power, 60.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 1.4 in.
 Gas stoves in use, 104.
 Supplies Macon.
 (No electric plant; franchise covers both gas and electricity.)

Marshall Gas Light Co., Marshall.

Capital stock, \$30,000.
 President, Thos. Boatright.
 Sec'y-treas., Jos. H. Boyer.
 Purchasing agent, Thos. Boatright.
 Gen. mgr. and supt., Thos. Boatright.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,500. No. meters, 300.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light and Fuel, gross and net \$1.50.
 Annual output, approx., 7,000,000 c. f.
 Candle-power, 18.

Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 175.

Moberly Gas and Electric Co., Moberly.

Capital stock, \$75,000.
 President, James Green.
 Secretary, Geo. R. Blackford.
 Treasurer, Mose Rumsey.
 Purchasing agent, H. B. Pilcher.
 Superintendent, Harvey B. Pilcher.
 Process manufacture, Coal.
 Pop. dist. supplied, 16,000. No. meters, 400.
 Miles of mains, approximate, 6.
 Price gas, 1903: Gross and net \$2. Fuel, \$1.50.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 100.
 Supplies Moberly.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 80 (2,000 c. p.) arcs capac.
 Incand. system, West'se, 3,000 lamps capac.
 Power generators, 130 kw. capacity.
 No. public arcs, 40; lighted by moon scale.
 No. public incandescents, 2,500.
 Price arc, Public, per year, \$80.
 Price incand., Public, per year, (32 c. p.), \$9;
 Price arc, Commercial, per month, \$7.50.
 per kw., 10c.
 Price incand., Com'l, per mo., (16 c. p.), 75c. to \$1; per kw., gross 10c. and 15c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.

Missouri Water, Light and Traction Co., Nevada.

(Own and operate water-works plant.)
 Capital stock, \$100,000.
 Bonds upon electric light and street railway plants, \$100,000; due 1920; interest, 6 p. c.
 President, J. B. Quigley.
 Vice-president, H. M. Duck.
 Treasurer, Ida Moran.
 Secretary, Thomas Donohue.
 Superintendent, Thomas Donohue.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 401.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light and Fuel, gross \$2. net \$1.50.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 41 p. c.
 Lowest pressure for gas stoves, 1.5 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, West'se, 225-kw. capacity.
 No. public arcs, 50; lighted all night.
 Price arc, Public, per year, \$85.
 Price arc, Com'l, per month, \$10; net, 10c.
 Price, incandescent, per kw-h., 20c.
 Power used, Steam.
 Cost boiler coal per ton, \$1.25.

The "Candle Power" given by the IMPROVED **Welsbach** STREET LIGHT is more efficient for street illuminations than that obtained by any other means. See advertisement, page xx.

Municipal Department, Rich Hill.

(Gas and electric plants owned by city.)
 Bonds, \$5,500; interest, 4 p. c.
 Mayor, L. M. Griffith.
 Clerk, J. Ed. Jones.
 Treasurer, J. W. Jamison.
 Purchasing agent and supt., J. Ed. Jones.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,000. No. meters, 250.
 Miles of mains approximate, 5.
 Price gas, 1903: Gross \$1.50; net \$1.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Gen. Elec., 38 (2,000 c. p.) arcs capacity.
 No Commercial lighting.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.50.

St. Charles Light and Fuel Co., St. Charles.

Capital stock, \$30,000.
 Bonds auth., \$30,000; due 1923; int. 5 p. c.
 President, Edward Gut.
 Secretary, Alexander Ross.
 Treasurer, Alexander Ross.
 Superintendent, S. O. Fulkerson.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 500.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$1.50; net \$1.40.
 Fuel, gross \$1.35 net \$1.25.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 275.

St. Joseph Gas Co., St. Joseph.

Capital stock, \$1,000,000; annual div., 4 p. c.
 Bonds, \$750,000; due 1937; interest, 6 p. c.
 President, Emerson MacMillan.
 Sec'y and treas., Ferd. Labrunerie.
 Gen. mgr., K. M. Mitchell.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 102,900. No. meters, 6,600.
 Miles of mains, approximate, 50.
 Price gas, 1903: Light and Fuel, gross \$1.25; net \$1.
 Annual output, approx., 200,000,000 c. f.
 Candle-power, 20.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 5,300.

Carondelet Gas Light Co., St. Louis.

Capital stock, \$250,000.
 Bonds, \$125,000; due 1902; interest, 6 p. c.
 President, C. W. Wetmore.
 Vice-president, E. G. Cowdery.
 Secretary and treasurer, C. L. Holman.
 Process manufacture, Coal.
 Population dist. supplied, 50,000.

Miles of mains, approximate, 45.
 Price gas, 1903: Light, gross \$1.10; net \$1.
 Fuel, gross 90c.; net 80c.
 No. public lamps, 1,419. Price per year, \$37.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Lighted by moon scale.
 Annual output, approx., 85,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 63 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 2,422.

Laclede Gas Light Co., St. Louis.

Capital stock, pref. \$2,500,000; com. \$8,500,000;
 annual div., 4 p. c.
 Bonds, \$10,000,000; due 1919; int., 5 p. c.
 President, C. W. Wetmore.
 Vice-presidents, E. G. Cowdery and Breckinridge Jones.
 Secretary, C. L. Holman.
 Treasurer, C. A. Tucker.
 Purchasing agent, W. H. Whitton.
 General manager, E. G. Cowdery.
 Engineer, W. A. Baehr.
 Process manufacture, Coal and Lowe.
 Population district supplied, 675,000.
 No. meters, 110,000.
 Miles of mains, approx., 525.
 Price gas, 1903: Light, gross \$1.10; net \$1.
 Fuel, gross 90c.; net 80c.
 No. public Welsbach lamps, 10,243.
 No. hours lighted per year, 4,100.
 Annual output, approx., 2,400,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 46 p. c.
 Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Brush, 1,500 (1,200 c. p.) arcs cap.
 Incand. system, Brush, 20,000 lamps capac.
 Power generators, 1,500 kw. capacity.
 No. public arcs, 21.
 No. public incandescents, 1,634.
 Price arc and incand. Public, per kw. 8c.
 Power used, Steam.
 Cost boiler coal, per ton, \$1.

Sedalia Gas and Fuel Co., Sedalia.

Capital stock, \$75,000.
 Bonds outstanding, \$50,000; interest, 5 p. c.
 President, Jas. Green.
 Secretary, Geo. R. Blackford.
 Treasurer, Jas. Green.
 Purchasing agent, J. L. Griffith.
 Superintendent, J. L. Griffith.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,250. No. meters, 865.
 Miles of mains, approximate, 17.
 Price gas, 1903: gross \$1.50; net \$1.35 and \$1.12.5.
 Annual output, approx., 15,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 330.

"The fact that the number of lamps in Worcester has been increased and the contract recommended by a unanimous vote of the City Council, is perhaps a sufficient answer to the inquiry if the service is satisfactory to the citizens of Worcester."

See advertisement, page xx.

HENRY A. KNIGHT, Superintendent of Street Lights.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Sedalia Electric Light and Power Co.)

Arc syst., Gen. Elec., 100 (2,000 c. p.) arcs capac.
Incand. system, West's, 1,500 lamps capacity.
Price arc, Commercial, per month, \$7 and \$10.
Price incand., Commercial, per mo., 16 c. p.,
50c., 75c. and \$1; per hour 0.5 to 0.75c.

Power used, Steam.

Cost boiler fuel per ton, \$2.50.

Springfield Gas and Electric Co., Springfield.

Capital stock, \$500,000.

Bonds, \$350,000; year due, 1819; int., 5 p. c.

President, F. W. Little.

Secretary and treas., N. J. Cunningham.

Pur. agent and gen. mgr., P. A. Bertrand.

Superintendent, H. J. Fox.

Process manufacture, Coal.

Pop. dist. supplied, 30,000. No. meters, 1,350.

Miles of mains, approximate, 20.

Price gas, 1903: Light and fuel, gross \$1.10;
net \$1.

Annual output, approx., 37,000,000 c. f.

Candle-power, 18.

Lowest pressure for gas stoves, 1.8 in.

Supplies Springfield.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, G. E., 250 (2,000 c. p.) arcs capac.

Incand. system, G. E., 2,300 lamps capacity.

No. public arcs, 151; lighted moonlight sched.

Price arc, Public, per year, \$67.50.

Price arc and incand. Com'l per kw. 15c.
and 7c.

Power used, Steam.

Cost boiler fuel per ton, \$2.75.

MONTANA.

Butte Gas Light and Fuel Co., Butte.

Capital stock, \$425,000.

President, J. H. Leyson.

Manager, W. H. Reber.

Superintendent, C. S. Reber.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 30,000.

No. meters in service, 1,000.

Miles of mains, approximate, 12.5.

Price gas, 1903: Light, gross \$2.50; net \$1.75.

Fuel, gross \$2.50; net \$1.50.

Annual output, approx., 26,000,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 40 p. c.

Lowest pressure for gas stoves, 1.75 in.

Process manufacture, Coal.

Pop. dist. supplied, 12,000. No. meters, 900.

Miles of mains, approximate, 12.

Price gas, 1903: Light, gross \$2.50 to \$1.875.

Annual output, approx., 22,000 000 c. f.

Candle-power, 17.

Proportion sold for fuel purposes, 35 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 900.

ELECTRICAL DEPARTMENT;

(Operated under same name as gas company.)

Arc system, Hartford, 180 (1,200 c. p.) arcs
capacity.

Incand. system, Edison, 19,000 lamps capac.

Total generating capacity, 1,300 kw.

No. public arcs, (425 watt) 106; lighted all and
every night.

No. public incandescents, 500; per kw., 10c.

Price arc, Public, per year., \$84.

Price arc, Commercial, per mo., \$7.50 to \$16.

Price incand., Com'l, per kw-h., gross 16c.;
disc. 10 to 30 p. c.

Power used, Water from Missouri River
dam, 18 miles distant.

NEBRASKA.

City Gas Co., Beatrice.

Capital stock, \$100,000.

Bonds, \$30,000; due 1916; interest, 6 p. c.

President, Albert S. Maxwell.

Secretary, Fred J. Maxwell.

Treasurer, Albert S. Maxwell.

Purchasing agent, Albert S. Maxwell.

Superintendent, Fred J. Maxwell.

Process manufacture, Patton (oil).

Pop. dist. supplied, 8,000. No. meters, 342.

Miles of mains, approximate, 14.

Price gas, 1903: Light, gross \$2; net \$1.25.

Fuel, gross \$2; net \$1.25.

Annual output, approx., 9,000,000 c. f.

Candle-power, 24.

Proportion sold for fuel purposes, 40 p. c.

Lowest pressure for gas stoves, 1.5 in.

Gas stoves in use, 95.

Fremont Gas and Electric Light Co., Fremont.

Capital stock, \$50,000.

Bonds, \$30,000; due 1911; interest, 6 p. c.

President, C. D. Jones, Independence, Ia.

Secretary, W. DeL. Freeman.

Treasurer, S. B. Hovey.

Purchasing agent, W. DeL. Freeman.

Welsbach System of Street Lighting

Process manufacture, Naphtha.
 Pop. dist. supplied, 5,000. No. meters, 160.
 Price gas, 1903: Light, \$1.75 to \$2.10. Fuel,
 \$1.20 to \$1.75.
 Proportion sold for fuel purposes, 40 p. c.
 Gas stoves in use, 75.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc syst., Ft. Wayne, 100 (1,200 c. p.) arcs capac.
 Incand. system, West'se, 1,750 lamps capacity
 Price arc, Commercial, per mo., \$4.25 to \$6.50.
 Price incand., Commercial, per mo., 50 to 90c.
 Power used, Steam.
 Cost boiler fuel, coal, per ton, \$2.75 to \$3.15.

Grand Island Gas Co., Grand Island.

Capital stock, \$150,000.
 President, Heyward G. Leavitt.
 Secretary, C. R. Heusinger.
 Treas. and pur. agent, C. R. Heusinger.
 Superintendent., James Murray.
 Process manufacture, Hanlon and Leadley.
 Pop. dist. supplied, 11,000. No. meters, 525.
 Miles of mains, approximate, 14.
 Price gas, 1903: Light, gross \$2.50; net \$2 to
 \$1.50. Fuel, gross \$2.50; net \$1.50.
 Annual output, approx., 11,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, 330.
 Supplies Grand Island.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Manhattan, 25 (2,000 c. p.) arcs
 capacity.
 Incand. system, West'se, 2,700 lamps capac.
 Power generators, 92.5 kw. capacity.
 Price arc and incand. Com'l, per kw., gross
 15c.; disc. 10 to 50 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.

Hastings Light and Heat Co., Hastings.

Capital stock, \$50,000; annual div., 4 p. c.
 Bonds outstanding, \$50,000; interest, 4 p. c.
 President, Benjamin Thompson.
 Secretary, Edward Woodman.
 Treasurer, Edward Woodman.
 Gen. mgr. and pur. agt., Chas. L. Gerould.
 Manager, A. W. Borden.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 450.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$2.25; net \$2.03.
 Fuel, gross \$2; net \$1.90.
 No. public, incand., lamps, 47.
 No. hours lighted, moonlight scale.
 Annual output, approx., 5,500,000 c. f.
 Candle-power, 18 to 20.
 Lowest pressure for gas stoves, 2.75 in.
 Gas stoves in use, 200.
 Supplies Hastings.

City Gas Co., Kearney.

Capital stock, \$30,000.
 President, J. S. Adair.
 Secretary, Warren Pratt.
 Treasurer, Warren Pratt.

Purchasing agent, Warren Pratt.
 Superintendent, A. M. Frank.
 Process manufacture, Patton (oil).
 Pop. dist. supplied, 6,000. No. meters, 200.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, gross \$2.50; net \$2.
 Fuel, net \$1.50.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 80.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 75.

Lincoln Gas and Electric Light Co., Lincoln.

President, Henry L. Doherty.
 Sec'y and treas., A. Lincoln Eglinton.
 Asst. sec'y and treas., Homer Honeywell.
 Superintendent, Edward J. Sherwood.
 General manager, L. G. Van Ness.
 Process manufacture, Coal, Lowe and
 Springer.
 Pop. dist. supplied, 41,000. No. meters, 5,415.
 Miles of mains, approximate, 49.
 Price gas, 1903: Light, gross \$1.75; net \$1.50.
 Fuel, gross \$1.50; net \$1.25.
 No. public Welsbach lamps, 315. Hours
 lighted, 4,380.
 Annual output, approx., 106,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 2,200.
 Supplies Lincoln.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Brush, 150 (2,000 c. p.) arcs capac.
 Incand. system, West'se, Genl. Elec., 10,000
 lamps capacity.
 Power generators, 202 kw. capacity.
 No. public arcs, 27.
 Price arc, Public, per year, to 12 P. M., \$80;
 all night, \$120.
 Price arc, Commercial, per month, \$9.50.
 Price incand., Commercial, per year, \$1.80;
 per kw., 6c., disc. 10 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.85.

Citizens Gas Light Co., Nebraska City.

Capital stock, \$75,000.
 Bonds \$47,000; due, 1921; interest, 6 p. c.
 President, J. H. Brown.
 Secretary, Geo. Mayer.
 Treasurer, Geo. Mayer.
 Superintendent, R. S. Fuertado.
 Local superintendent, W. E. Davis.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 8,000. No. meters, 400.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$1.75, net \$1.70.
 Fuel net, \$1.60.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 125.

Omaha Gas Co., Omaha.

Capital stock, pref. \$1,250,000; com. \$2,500,000.
 Bonds, \$2,182,000; due 1917; interest, 5 p. c.

THE Welsbach STREET LIGHTING COMPANY OF AMERICA will furnish complete plants for the lighting of the streets of cities, the gas being furnished by the gas company. See advertisement, page xx.

President, Frank Murphy.
 Secretary, Geo. W. Clabaugh.
 Treasurer and engineer, Isaac Battin.
 Pur. agent, J. A. Pearson, Philadelphia, Pa.
 Superintendent, Geo. H. Waring, Jr.
 Process manufacture, Lowe.
 Pop. dist. supplied, 148,886. No. meters, 13,003.
 Miles of mains, approximate, 168.
 Price gas, 1903: Light and Fuel, gross \$1.45; net \$1.35.
 No. public Welsbach lamps, 1,042.
 Consumption per burner per hour, 4 c. f.
 Contract includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 378,982,000 c. f.
 Candle-power, 26.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 14,317.
 Cities supplied: Omaha and South Omaha.

Plattsmouth Gas and Electric Light Co., Plattsmouth.

Capital stock, \$30,000.
 Bonds outstanding, \$30,000; interest, 6 p. c.

Receiver, W. J. White.
 Engineer, E. T. Thomas.
 Electrician, K. Jones.
 Process manufacture, Naphtha.
 Population, 5,000. No. meters, 150.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$2.50; net \$1.25, Fuel, gross \$2; net \$1.60.
 Annual output, approx., 1,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 70 p. c.
 Lowest pressure for gas stoves, 1 in.

ELECTRICAL DEPARTMENT.

Arc system, T. H., 35 arcs capacity.
 Incand. system., T. H., 600 lamps capac.
 No. public incandescents, 1,100.
 Price incandescent, Public, per year, 16 c. p., \$6; 32 c. p., \$8.90.
 Price arc, Commercial, per month, \$6.
 Price incandescent, Commercial, per mo., 16 c. p., 50 and 75c.; per kw-h., 15c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.77 to \$5.

NEVADA.

Carson City Coal Gas Co., Carson City.

Capital stock, \$50,000; annual div., 6 p. c.
 President, T. J. Edwards.
 Secretary, T. J. Edwards.
 Treasurer, Mrs. E. T. Dupuis.
 Purchasing agent, N. Wylie.
 Superintendent, N. Wylie.
 Process manufacture, Coal.
 Pop. dist. supplied, 3,500. No. meters, 140.
 Miles of mains, approximate, 2.
 Price gas, 1903: \$3.
 Annual output, approx., 2,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 25.

Nevada Power Light and Water Co., Reno.

Capital stock, \$400,000.
 Bonds, \$300,000; due 1922; interest, 6 p. c.
 President, P. L. Flanagan.
 Secretary, W. L. Bechtel.
 Treasurer, Washoe County Bank.
 Purchasing agent, W. L. Bechtel.

Superintendent, W. L. Bechtel.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,000. No. meters, 275.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$4. Fuel, gross \$2.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 18.
 Supplies Reno.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, T. H., 95 (1,200 c. p.) arcs capac.
 Incandescent system, Westinghouse 6,400 lamps capacity.
 Power generators, 400 kw.
 No. pub. arcs, 45; lighted all and every night.
 Price arc, Public, per year, \$84.
 Price arc, Com'l, per mo., \$8 and \$9.
 Price incand., Com'l, per mo., (16 c. p.) 50c. (to 10 o'clock) 75c. (all night). Per kw. gross, 10c.; disc. 10 to 40 p. c.
 Power used, Water.

NEW HAMPSHIRE.

Claremont Gas Light Co., Claremont.

(Owned and operated by the Monadnock Mills.)
 Purchasing agent, F. P. Vogl.
 Superintendent, Wm. Burns.
 Process manufacture, Hanlon (oil).
 Pop. dist. supplied, 5,000. No. meters, 225.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, gross \$2.50; net \$2. Fuel, gross \$2; net \$1.60.

Annual output, approx., 4,211,060 c. f.
 Candle-power, 21.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 60.
 Supplies Claremont.

Concord Light and Power Co., Concord.

Capital stock, \$200,000.
 President, Benj. A. Kimball.

The IMPROVED **Welsbach** STREET LIGHTING FIXTURES furnish the perfection of street lighting outfits. See advertisement, page xx.

Clerk, Frank P. Andrews.
 Treasurer, Lewis Lillie.
 Pur. agent, J. A. Pearson, Philadelphia, Pa.
 Superintendent, H. K. Morrison.
 Process manufacture, Lowe.
 Pop. dist. supplied, 20,100. No. meters, 2,883.
 Miles of mains, approximate, 27.
 Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.50.
 No. public lamps, 130; incl. 19 Welsbachs.
 Price per year (open flame) \$12.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 47,074,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 1,964.

United Gas and Electric Co., Dover.

(Leased to the above by the Dover Gas Light Co., not operating, but whose officers are:
 Pres., John F. Hill; Treas., J. F. Lang;
 Clerk, G. G. Welch.)

President, Albert Wallace, Rochester.
 Treasurer, G. G. Welch.
 Gen. manager, Thomas Hawkin.
 Gen. supt. A. D. Richmond.
 Process manufacture, Coal.
 Pop. dist. supplied, 16,000.
 Price gas, 1903: Light, gross \$1.80; disc. 10 p. c.
 Gas stoves in use, 200.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, T. H., 600 arcs capacity.
 Incand. system, T. H., 20,000 lamps capacity.
 No. public arcs, 600; lighted by moon scale to 12 P. M.
 Price arc, Public, per year, 12 o'clock \$67; all night \$87.
 Price arc, Commercial, per month, \$5.
 Price incand., 15c. per kw.
 Power used, Steam and Water.

Exeter Gas Light Co., Exeter.

Capital stock, \$50,000.
 President, Odiome Swain.
 Treasurer, A. Parker Browne.
 Superintendent, Arthur F. Cooper.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 500.
 Price gas, 1903: Light, gross \$2.30; net \$2.
 Fuel, gross \$2.30; net \$1.50.
 Annual output, approx., 7,000,000 c. f.
 Candle-power, 17.5.
 Lowest pressure for gas stoves, 1.5 in.

Farmington Gas Light Co., Farmington.

(See Dep't of Acetylene Plants.)

Franklin Light and Power Co., Franklin Falls.

Capital stock, \$100,000.
 President, A. W. Sulloway.
 Treasurer, John P. Proctor.

Clerk, E. G. Leach.
 Purchasing agent, John P. Proctor.
 Superintendent, John P. Proctor.
 Process manufacture, Naphtha (oil).
 Population, 6,000. No. meters, 125.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, gross \$5 or 0.5c. per jet per hour.
 Annual output, approx., 1898, 1,000,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 2.2 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, G. E., 75 arcs capacity.
 Incand. system, Gen. Elec., 7,400 lamps capacity.
 No. public arcs, 62; lighted all night.
 No. public incand., 18; lighted all night.
 Price arc, Public, per year, \$65.
 Price incand., Public, per year, 32 c. p., \$15.
 Price incand., Com'l, per mo., 16 c. p., 50c.
 Power used, Water.

Great Falls Gas Light Co., Great Falls.

(See Somersworth.)

Keene Gas and Electric Co., Keene.

Capital stock, \$150,000.
 Bonds, \$95,000.
 President, W. H. Elliot.
 Secretary and treas., G. M. Rossman.
 Pur. agent and supt., G. M. Rossman.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 800.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light and Fuel, gross \$2; net, \$1.80.
 Annual output, approx., 15,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 500.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Gen. Elec., 100 (2,000 c. p.) arcs capacity.
 Incand. system, Gen. Elec., 6,000 lamps capac.
 Power generators, 300 kw. capacity.
 No. public arcs, 60; lighted 4,000 hours.
 No. public incand., 150; lighted, 3,000 hours.
 Price arc, Public, per year, \$100.
 Price incand., Public, per year, (32 c. p.) \$24.
 Price incand., Com'l, per kw-h., 15c. to 20c.
 Price per kw.; gross, 20c.; disc. 20 to 25 p. c.
 Power used, Water and Steam.
 Cost boiler fuel per ton, \$4.38.

Winnepesaukee Gas and Electric Co., Laconia.

Capital stock, \$20,000; annual div., 4 p. c.
 Bonds outstanding, \$70,000.
 President, Wallace L. Mason.
 Treasurer, Geo. M. Rossman.
 Purchasing agent, Geo. M. Rossman.
 Superintendent, O. R. Tinker.

THE **Welsbach** SYSTEM OF STREET LIGHTING is employed in the following cities: New York City, Philadelphia, Pa., Freehold, N.J., East Orange, N.J., New Haven, Conn., Brookline, Mass., Cambridge, Mass., New Rochelle, N.Y., Omaha, Neb., Springfield, O., Boston, Mass., New Bedford, Mass., Bridgeport, Conn., Dayton, O., Pensacola, Fla., St. Louis, Mo., Providence, R.I., San Francisco, Cal., Yonkers, N.Y., Milwaukee, Wis., Portland, Me., and various other cities. See Advertisement, page xx.

Process manf., Lowe.
 Pop. dist. supplied 10,000. No. meters, 750.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light, gross \$2.25; net \$2.
 Fuel, gross \$1.70; net \$1.50.
 Annual output, approx., 9,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 45 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 375.
 Supplies Laconia and Lakeport.

Peoples Gas Light Co., Manchester.

Capital stock, \$300,000.
 President, Frank Dowst.
 Clerk, Alonzo Elliott.
 Treasurer, W. G. Africa.
 Pur. agent, J. A. Pearson, Philadelphia, Pa.
 Superintendent, W. G. Africa.
 Process manufacture, Lowe and Coal.
 Pop. dist. supplied, 60,000. No. meters, 6,044.
 Miles of mains, approximate, 58.
 Price gas, 1903: Light and Fuel, gross \$1.40;
 net \$1.25.
 No. public Welsbachs, 82, lighted 4,000 hours.
 Annual output, approx., 124,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 4,831.
 Supplies Manchester.

Nashua Light, Heat and Power Co., Nashua.

Capital stock, \$500,000; annual div., 8 p. c.
 President, F. W. Estabrook.
 Secretary, J. H. Toller.
 Treasurer, Elbert Wheeler.
 Supt. and pur. agt., gas dept., W. F. Norton.
 Supt. and pur. agt., elect. dept., G. L. Sadler.
 Process manufacture, Coal.
 Pop. dist. supplied, 24,000. No. meters, 2,300.
 Miles of mains, approximate, 32.
 Price gas, 1903: Light and Fuel, gross \$1.80;
 net \$1.40.
 Annual output, approx., 47,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,300.
 Supplies Nashua.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Gen. Elec., 270 (1,200 c. p.) arcs capacity.
 Incandescent system, Gen. Elec., 3,500 lamps capacity.
 Power generators, 162 kw. capacity.
 No. public arcs, 235; hours lighted, 4,000.
 No. public incand., 42; hours lighted, 4,000.
 Price arc, Public, per year, \$100.
 Price incand., Public, per year, (32 c. p.) \$30.
 Price incand., Commercial, per kw-h., 20c.; disc. 20 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$5.

Pittsfield Gas Co., Pittsfield.

Capital stock, \$15,000.
 President, Charles H. Carpenter.
 Secretary, Natt. S. Drake.
 Treasurer, H. B. Fischer.
 Purchasing agent, N. M. Batchelder.
 Superintendent, N. M. Batchelder.
 Process manufacture, Naphtha (oil).
 Pop. dist. supplied, 3,000. No. meters, 100.
 Miles of mains, approximate, 2.
 The following data reported on coal-gas basis:
 Price gas, 1903: Light, gross \$1.50.
 No. public Welsbach lamps, 30.
 Annual output, approx., 1,700,000 c. f.
 Candle-power, 30.
 None sold for fuel.

Rockingham County Light and Power Co., Portsmouth.

Capital stock, \$750,000.
 President, D. A. Belsten.
 Treasurer, H. A. Tenney.
 Purchasing agent and Supt., J. S. Whitaker.
 General manager, Franklin Woodman.
 Process manufacture, Coal.
 Pop. dist. supplied, 11,000. No. meters, 925.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light, gross \$1.67; net \$1.50.
 Fuel, \$1.15.
 Annual output, 12,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2.4 in.
 Gas stoves in use, 150.
 Supplies Portsmouth.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Gen. Elec., 240 (1,200 c. p.) arcs.
 Incand. system, Gen. Elec., 2,500 lamps capac.
 Power generators, 4,000 kw.
 No. public arcs, 114; hours lighted, 7,200.
 No. public incandescents, 200.
 Price arc, Public, per year, \$107.
 Price incand., Public, per year, (25 c. p.) \$25.55.
 Price incand., Com., per kw-h., 20c. Disc. 10c.
 Price 500-volt power service per kw-h., 10c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.

Salmon Falls Manufacturing Co., Salmon Falls.

(Private plant for lighting company's mills.)

Great Falls Gas Light Co., Somersworth.

Capital stock, \$47,500.
 President, Edward P. Nichols.
 Treasurer, Frank E. Libby.
 Pur. agent and supt., F. G. Chapman.
 Process manufacture, Kendall (oil).
 Population, 7,000.
 Price gas, 1903: Light \$2. Fuel \$1.50.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2.

The **Welsbach STREET LIGHT** is a pure white light, unaffected by change of temperature, winds, or other natural disturbances. See advertisement, page XX.

Consolidated Gas Co., of New Jersey, Asbury Park.
Superintendent at Asbury Park, J. M. Coles.
(See Long Branch.)

Atlantic City Gas and Water Co., Atlantic City.

Capital stock, \$550,000.
Bonds, \$80,000; due 1911; interest, 5 p. c.
President, Savery Bradley.
Secretary, John P. Tompkins.
Treasurer, Dr. Thos. K. Reed.
Gen. mgr. and pur. agt., John P. Tompkins.
Process manufacture, Lowe.
Population, permanent, 40,000; summer, 300,000. No. meters, 7,800.
Miles of mains, approximate, 25.
Price gas, 1903: Light, gross \$1.50; net \$1.35.
Fuel, gross \$1; net 90c.
No. public lamps, 200. Price per year, \$22.
Consumption per burner per hour, 4 c. f.
Price includes lighting, exting. and care.
Lighted all and every night.
Annual output, approx., 240,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 43 p. c.
Lowest pressure for gas stoves, 2.5 in.

Hudson County Division Public Service Corporation of N. J., Bayonne.
(See Jersey City.)

Coast Gas Co., Belmar.

Capital Stock, \$250,000.
Bonds, \$240,000; due, 1952; interest, 5 p. c.
President, Andrew P. Maloney.
Treasurer, Charles F. Warner.
Purchasing Agent, Andrew P. Maloney.
Superintendent, Wm. E. Fullager.
Process manufacture, Lowe.
Pop. dist. supplied: Summer, 75,000; Winter, 10,000. No. meters, 550.
Miles of mains, approximate, 15.
Price gas, 1903: Light and Fuel, \$1.50.
No. public Welsbach lamps, 400.
Consumption per burner per hour, 3.50 c. f.
Contract includes repairs, care, lighting and extinguishing.
Lighted all and every night.
Annual output, approximate, 15,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 70 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 450.
Cities supplied: Belmar, Avon, Bradley Beach, Neptune City, Como, Spring Lake, Manasquan and Wall township.

The Boonton Gas Light and Improvement Co., Boonton.

Capital stock, \$80,000.
Bonds, \$80,000; due 1952; interest, 5 p. c.
President, C. L. Ingraham, Newark, N. J.
Secretary, P. W. Hammond.
Treas. and supt., P. W. Hammond.
Pur. agt., P. W. Hammond.
Process manufacture, Water.
Population, 4,750.
Miles of mains, approximate, 9.
Price gas, 1903: Light and Fuel, net \$1.35.
Lowest pressure for gas stoves, 1.8 in.

South Jersey Division Public Service Corporation, of N. J., Bordentown.
(See Camden.)

Bridgeton Gas Light Co., Bridgeton.

Capital stock, \$31,040.
President, Daniel Bacon.
Secretary, H. W. Elmer.
Treasurer, B. F. Harding.
Pur. agt. and supt., B. F. Harding.
Process manufacture, Coal.
Pop. dist. supplied, 14,000. No. meters, 1,529.
Miles of mains, approximate, 14.
Price gas, 1903: Light and Fuel gross \$1.10; net \$1.
Annual output, 32,553,400 c. f.
Candle-power, 17.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 2.3 in.
Gas stoves in use, 800.
Supplies Bridgeton.

South Jersey Division Public Service Corporation of N. J., Burlington.
(See Camden.)

South Jersey Division Public Service Corporation of N. J., Camden.

President, T. N. McCarter.
Secretary, Frederick Evans.
Treasurer, J. P. Dusenberry.
General Manager, H. D. Whitcomb.
Process manf., Coal, Lowe. Otto-Hoffmann ovens building at Camden.
Population dist. supplied, 203,000.
Miles of mains, approximate, 266.
Price gas 1903: gross \$1.25; net \$1.
Total number of meters in service, 28,683.
Public gas lighting supplied to Trenton, Camden and Woodbury.
No. public lamps, 1,000; inc. 929 Welsbachs.
Price per year, open flame, \$21.
Consumption per burner, per hour, 6 c. f.
Contract includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., total, 725,000,000 c.f.
Candle-power average, 20.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, 20,000.
Cities and towns supplied with gas: Camden-Trenton, Bordentown, Fieldsboro, Flor, ence, East Burlington, Burlington, Edgewater Park, Beverly, Delanco, Riverside, Riverton, Mt. Holly, Moorestown, Stanwick, Palmyra, Pensaukin, Merchantville, Gloucester, Westville, Westmont, Woodbury, Collingswood, Woodlynne, Haddonfield and Columbus, N. J., and Bristol, Pa.

ELECTRICAL DEPARTMENTS.

CAMDEN.

Arc sys., Wood and T. H. 600 (2,000 c. p.)
Incand. sys., A. C., 33,000 lamp capac.
No. Public arcs, 554. Hours lighted, 4,000.
Price arc Public, \$120 per year.

WELSBACH STREET LIGHTING COMPANY OF AMERICA:

GENTLEMEN: I am pleased to add my recommendation to your system of street lighting. From my experience of street lighting particularly in cities where the streets abound in shade trees, I have found it vastly superior to electric lighting, and believe that it is the proper way for lighting all streets. (Signed) HENRY S. KEARNY, Commissioner. City of New York, Department of Public Buildings, Lighting and Supplies.

See advertisement, page xx.

Price arc Com'l, \$7.80 to \$12 per mo.
 Price incand. Com'l per lamp per mo. 14c.
 to 20c.; excess consumption, 8c.
 Power used, Steam.
 Cost of boiler fuel per ton, \$2.75.

TRENTON.

Arc sys. 450 G. E., series constant current
 7.5 amp.
 Incand. sys., A. C., 50,000 lamp capac.
 No. Public arcs, 405. Hours lighted, 4,000.
 Price Public arc, per year, \$92.77.5.
 Price Com'l arc metered same as incand.
 Price Com'l incand. per mo. per lamp 14c. to
 20c., worth excess consumption, 8c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.15.
 Cities and towns supplied with electricity:
 Trenton, Lawrenceville, Pennington,
 Morrisville, Pa., Yardley, Pa., Bristol
 Pa., Camden, Merchantville, Collings-
 wood, Haddonfield, Gloucester, Wood-
 lynne, Moorestown, Westville and Pen-
 saukin, N. J.

Cape Island Gas Co., Cape May.

Capital stock, \$80,000.
 Bonds outstanding, \$12,500; interest, 6 p. c.
 President, E. A. Armstrong.
 Secretary, J. J. Burleigh.
 Treasurer, David Baird.
 Purchasing agent, J. Henry Edmunds.
 Superintendent, J. Henry Edmunds.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 500.
 Miles of mains, 7 to 8.
 Price gas, 1903: Light and Fuel, gross \$2;
 net \$1.50.
 No. public lamps, 150. Price per year, \$36.
 Consumption per burner per hour, 6 c. f.
 Price includes repairs.
 No. hours lamp is lighted per year, 1,500.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 22.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 200.

Cranford Gas Light Co., Cranford.

(Distributes only; gas made at Elizabeth.)
 Capital stock, \$10,000.
 President, John Kean.
 Secretary, Harry B. Udell.
 Treasurer, Julian H. Kean.
 Purchasing agent, Harry B. Udell.
 Pop. dist. supplied, 5,000. No. meters, 418.
 Miles of mains, approximate, 16.
 Price gas, 1903: Light and Fuel, gross \$1.75;
 net \$1.50.
 Lowest pressure for gas stoves, 2 in.
 Supplies Garwood, Westfield, Fanwood and
 Cranford.

Dover, Rockaway and Port Oram Gas Co., Dover.

Capital stock, \$100,000.
 President, Addison Ely.
 Secretary, Chas. G. Lord.
 Treasurer, J. H. Simpson.
 Mgr. and pur. agent, Addison Ely, Jr.
 Process manufacture, Lowe.
 Population, 15,000. No. meters 700.

Miles of mains, approximate, 21.
 Price gas, 1903: Light and Fuel, net \$1.35.
 Candle-power, 22.
 Gas stoves in use, 500.
 Cities supplied: Dover, Rockaway and Port
 Oram.

Elizabethtown Gas Light Co., Elizabeth.

Capital stock, \$300,000.
 Bonds outstanding, \$200,000; interest, 4.5 p. c.
 President, John Kean.
 Secretary, Frederic A. Price.
 Treasurer, Julian H. Kean.
 Superintendent, Francis Engel.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 56,000. No. meters, 6,500.
 Miles of mains, approximate, 113.
 Price gas, 1903: Light and Fuel, gross \$1.50;
 net \$1.25.
 No. public lamps, 1,000. Price per year, \$15.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and
 extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 200,000,000 c. f.
 Candle-power, 20.
 Lowest pressure for gas stoves, 1.2 in.

Gas and Electric Co. of Bergen County, Englewood. (See Hackensack.)

Flemington Gas Light Co., Flemington.

Capital stock, \$10,000.
 President, John B. Hopewell.
 Purchasing agent, John B. Hopewell.
 Superintendent, John B. Hopewell.
 Process manufacture, Naphtha (oil).
 Pop. dist. supplied, 2,000. No. meters, 100.
 Miles of mains, approximate, 2.
 Price gas, 1903: Light, gross \$2.50.
 Annual output, approx., 1,400,000 c. f.
 Candle-power, 20.
 Lowest pressure for gas stoves, 1.3 in.
 Gas stoves in use, 7.

Freehold Gas Light Co., Freehold.

Capital stock, \$30,000; annual div., 6 p. c.
 Bonds \$20,000; due 1922; interest, 4.5 p. c.
 President, Holmes V. M. Dennis.
 Secretary, Charles H. Butcher.
 Treasurer, Charles H. Butcher.
 Superintendent, William L. Freeman.
 Process manufacture, Coal.
 Pop. dist. supplied, 3,000. No. meters, 360.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light and Fuel, gross \$1.80;
 net \$1.62.
 No. public Welsbach lamps, 132.
 Consumption per burner per hour, 3.5 c. f.
 Contract includes repairs, care, lighting and
 extinguishing.
 No. hours lamp is lighted per year, 3,300.
 Annual output, approx., 8,500,000 c. f.
 Candle-power, 20 to 22.
 Lowest pressure for gas stoves, 1.5 in.
 Supplies Freehold.

South Jersey Division Public Service Corporation of N. J., Gloucester. (See Camden.)

THE WELSBACH STREET LIGHTING COMPANY OF AMERICA can
 furnish lanterns and fixtures for every possible contingency that may occur.
 See advertisement, page xx.

Gas and Electric Co. of Bergen County, Hackensack.

Capital stock, \$2,000,000.
 Bonds, \$1,500,000; due 1949; int., 5 p. c.
 President, David St. John.
 Vice-president, J. J. Phelps.
 Secretary, Lemuel Lozier.
 Treasurer and gen'l mgr. Edmund A. Pearce.
 Engineer gas dept., E. H. Sherman.
 Engineer elect. dept., F. N. Lawton.
 Process manufacture, Lowe.
 Pop. dist. supplied, 60,000. No. meters, 7,000.
 Miles of mains, approximate, 150.
 Price gas, 1903: Light and Fuel, \$1.50 to \$1.35.
 No. public lamps, 100. Price per year, \$18.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 180,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 5,000.
 Supplies 20 towns in Bergen County, including city of Englewood and Rutherford.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

System operated, S. K. C. 2-phase.
 Station capacity, 30,000 (16 c. p.) lamps.
 Power generators, 1,525 kw.
 No. public arcs, 50; hours lighted, 4,000.
 No. public incand., 2,500; hours lighted, 4,000.
 Price arc, Public, per year, \$84.
 Price incand., Public, per year, 25 c. p., \$16;
 32 c. p., \$22.50; per kw-h., 14c. to 17c.
 Price incand., Com'l, per kw-h., 15c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.35.

Hammonton and Egg Harbor City Gas Co., Hammonton.

Capital stock, \$70,000.
 Bonds, \$40,000; due, 1933; interest 5 p. c.
 President, Laomi Montford.
 Secretary and treas., J. L. O'Donnell.
 Purchasing agent, H. E. Woodman.
 Superintendent, John Reed.
 Process manuf., Logan-Janeway (Water).
 Population dist. supplied, 7,000.
 Miles of mains, approximate, 6.
 Price gas, 1903; net \$1.50; Fuel, \$1.35.
 Annual output, approximate, 5,000,000 c. f.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 200.
 Cities supplied, Hammonton.

Hudson County Division Public Service Corporation of N. J., Hoboken.

(See Jersey City.)

Essex and Hudson Division Public Service Corporation of N. J., Irvington.

(See Newark.)

Hudson County Division Public Service Corporation of N. J., Jersey City.

President, T. N. McCarter.
 Secretary, Frederick Evans.

Treasurer, James P. Dusenberry.

Pur. agent, J. A. Pearson, Philadelphia, Pa.

General manager, H. D. Whitcomb.

Process manufacture, Lowe.

Pop. dist. supplied, 390,000. No. meters, 66,795.

Miles of mains, approximate, 344.

Price gas, 1903: Light and Fuel, gross and net \$1.10.

No. public lamps, 1,425; inc. 511 Welsbachs.

Price per year, open flame, \$17.50 to \$18.50.

Consumption per burner per hour, 3 to 3.5 c. f.

Contract includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 3,000 to 4,000.

Annual output, approx., 1,700,000,000 c. f.

Candle-power, 25.

Proportion sold for fuel purposes, 35 p. c.

Lowest pressure for gas stoves, 1.8 in.

Gas stoves in use, 30,000.

Cities supplied: Jersey City, Hoboken, West Hoboken, Bayonne, Greenville, Hudson City, North Hudson, Weehawken, Town of Union, Guttenberg, etc.

Lakewood Gas Co., Lakewood.

Capital stock, \$100,000.

Bonds, \$100,000; due 1949; int. 5 p. c.

President, Chas. F. Wimmer.

Secretary and treas., Andrew P. Maloney.

Purchasing agent, Andrew P. Maloney.

Superintendent, Jos. Mayer.

Process manufacture, Lowe.

Pop. dist. sup., 10,000 winter; summer, 3,500.

No. meters, 600.

Miles of mains, approximate, 9.

Price gas, 1903: Light and Fuel, \$1.25.

No. pub. Welsbach lamps, 50; lighted 4,000 hrs.

Annual output, approximate, 13,000,000.

Candle-power, 22.

Lowest pressure for gas stoves, 2 in.

Proportion sold for fuel purposes, 60 p. c.

Gas ranges in use, 300.

Supplies Lakewood.

Lambertville Gas Light Co., Lambertville.

Capital stock, \$30,000. Annual div. 4 p. c.

Bonds outstanding, \$4,000; interest, 4.5 p. c.

President, James S. Studdiford.

Secretary, Albert D. Anderson.

Treasurer, F. W. Vanhart.

Pur. agent and Supt., Geo. W. Massey.

Process manufacture, Coal.

Population, city, 5,000. No. meters, 300.

Miles of mains, approximate, 4 to 5.

Price gas, 1903: Light, net \$2.25. Fuel, \$1.75.

No. public burners, 4. Price per year, \$30.

Consumption per burner per hour, 3 c. f.

Price includes repairs, care, lighting and extinguishing.

Lighted all night.

Annual output, approx., 4,500,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 33 p. c.

Lowest pressure for gas stoves, 1.5 in.

Gas Stoves in use, 100.

Consolidated Gas Co. of New Jersey, Long Branch.

Capital stock, \$1,000,000.

Bonds, \$971,000; due 1945; interest, 5 p. c.

THE WELSBACH STREET LIGHT possesses great economy over any other method of street illumination. See advertisement, page xx.

President, Emerson McMillin.
 Secretary, A. Lincoln Eglinton.
 Treasurer, C. Henry Irwin.
 Gen. mgr. and pur. agt., W. B. Tuttle.
 Supt. Long Branch, works, E. C. White.
 Supt. Asbury Park, J. M. Coles.
 Supt. Red Bank, C. W. Bennett.
 Supt. elec. dept., C. H. Knode.
 Process manufacture, Lowe and Coal.
 Population, 3 towns, winter, 30,000; summer, 90,000. No. meters, max., 4,874.
 Miles of mains, approximate, 87.
 Price gas, 1903: Light and Fuel, gross \$1.60 net \$1.50; Power, gross \$1.60; net \$1.30.
 No. public lamps, 310. Price per 1,000, \$1.50.
 No. public Welsbach lamps, 100 (incl. above).
 Consumption per burner per hour, 4 c. f.
 Price does not include repairs care and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 130,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2 in.
 (Supplies also Asbury Park, Red Bank Eatontown, Allenhurst, West Park, West Grove, Bradley Beach, Deal Beach, Seabright Oceanport, and Long Branch. All gas is made at Long Branch.)

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 250 (1,200 c. p.) arcs capac.
 Incandescent system, Gen. Elec., West'se, 10,000 lamps capacity.
 Power generators, 150 kw. capacity.
 No. public arcs, 220; hrs. lighted, 3,100.
 No. public incand., 9.
 Price arc, Public, per year, \$82.
 Price incand., Public, per year, (16 c. p.) \$24.
 Price arc, Commercial, per month, \$10.
 Price incand., Commercial, per kw-h., 20c.
 Power used, Steam and Gas Engine.
 Cost boiler fuel per ton, \$4.25.

Shore Gas Co., Manasquan.

(See Belmar.)

Standard Gas Co., Matawan.

Capital stock, \$50,000.
 Bonds, \$64,500; due 1925; interest, 5 p. c.
 President, A. P. Bachman.
 Secretary, C. A. Geran.
 Treasurer, H. W. Davies.
 Manager, H. W. Davies.
 Pur. agent, Keyport, H. W. Davies.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,000. No. meters, 559.
 Miles of mains, approximate, 9.49.
 Price gas, 1903: Light and Fuel, gross \$2, net \$1.75.
 Annual output, approx., 9,034,300 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 42 p. c.
 Lowest pressure for gas stoves, 1 in.
 Cities supplied: Matawan and Keyport.
 (Operates separate works at South Amboy.)

South Jersey Division Public Service Corporation of N. J., Merchantville.

(See Camden.)

Millville Gas Light Co., Millville.

Capital stock, \$50,000.
 President, Francis Reeves.
 Secretary, N. G. Livermore.
 Asst. treasurer, Walter Wood.
 Purchasing agent, S. J. Franklin.
 Superintendent, S. J. Franklin.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,500. No. meters, 1,200.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, and fuel, gross \$1.35; net \$1.21.5.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 500.

Essex and Hudson Division Public Service Corporation of N. J., Montclair.

(See Newark.)

Morristown Gas Light Co., Morristown.

Capital stock, \$150,000.
 President, R. D. Foote.
 Vice-president, Mahlon Pitney.
 Secretary, C. D. Makepeace.
 Treasurer, L. D. Kay.
 Pur. agent and asst. treas., D. P. Skellenger.
 Superintendent, George H. Brown.
 Process manufacture, Coal.
 Pop. dist. supplied, 11,500. No. meters, 940.
 Miles of mains, approximate, 20.
 Price gas, 1903: Light, \$1.75; over 5,000, \$1.65.
 Fuel, \$1.50. Disc. 5c. per 1,000.
 No. public lamps, 177. Price per year, \$21.
 Consumption per burner per hour, 4 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Lighted all night, Nat'l Meter Co. schedule.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 15 p. c.
 Lowest pressure for gas stoves, 2.2 in.

South Jersey Division Public Service Corporation of N. J., Mount Holly.

(See Camden.)

Essex and Hudson Division Public Service Corporation of N. J., Newark.

President, T. N. McCarter.
 Secretary, Frederick Evans.
 Treasurer, J. P. Dusenberry.
 Pur. agent, J. A. Pearson, Philadelphia, Pa.
 General manager, H. D. Whitcomb, Jr.
 Process manf., Coal and Lowe.
 Pop. dist. supplied, 400,000. No. meters, 63,169.
 Miles of mains, approximate, 522.
 Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
 No. public lamps, 5,052; inc. 1,116 Welsbachs.
 Price open flame, \$17.50 to \$19.
 Consumption per burner per hr., 3 to 3.5 c. f.
 Price includes repairs, care, lighting and extinguishing on 2,553 only.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 2,120,000,000 c. f.
 Candle-power, 20 to 22.

Welsbach Street Lighting Co. of America

Proportion sold for fuel purposes, 42 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, 34,000.

Cities supplied: Newark, Belleville, Irvington, Orange, East Orange, South Orange, West Orange, Maplewood, Vailsburgh, Montclair, Bloomfield, Glen Ridge, Milburn, Short Hills, Wyoming, Springfield and Summit.

Gas Light Co. of the City of New Brunswick, New Brunswick.

Capital stock, \$500,000.
Bonds outstanding, \$500,000.
President, J. Bayard Kirkpatrick.
Secretary, Harlsey M. Barrett.
Treasurer, John C. Eisele.
Purchasing agent, Samuel C. Gowen.
Superintendent, Samuel C. Gowen.
Process manufacture, Lowe.
Pop. dist. supplied, 20,000.
Price gas, 1903: Light, gross \$1.50; net \$1.40.
No. public lamps, 325. Price per year, \$21.
Consumption per burner per hour, 5 c. f.
Price includes repairs, care and lighting.
Lighted all and every night.
Candle-power, 26.

Newton Gas and Electric Co., Newton.

Capital stock, \$200,000.
Bonds, \$100,000; due 1951; interest, 5 p. c.
President, William McKenzie.
Vice-president, A. L. Prescott.
Secretary, Frank Hughes.
Treasurer, Frank Hughes.
Purchasing agent, E. J. Crissey.
General manager, John H. Carruthers.
Superintendent, E. J. Crissey.
Process manufacture, Lowe and Blair.
Pop. dist. supplied, 5,000. No. meters, 440.
Miles of mains, approximate, 7.5.
Price gas, 1903: Light, gross \$1.75; net \$1.65.
Fuel, gross \$1.35; net \$1.25.
Annual output, approx., 8,000,000 c. f.
Candle-power, 24.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 200.
Supplies Newton.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Ball, 100 (800 c. p.) arcs capacity.
Incand. system, Ft. Wayne, 4,000 lamps capac.
No. public arcs, 80; hours lighted, 4,000.
No. Public incand., 3,300.
Price arc, Public, per year, \$68.50.
Price incand. Public per kw., 8c. to 16c.
Price arc, Com'l, per mo., \$2.50.
Price incand., Com'l, per kw., 8c. to 16c.; disc. 5 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$3.50.
(Rebuilding electric plant.)

City Gas Light Co., Ocean City.

Capital stock, \$100,000.
President, B. C. Godfrey.
Treas. and pur. agent, Andrew P. Maloney.
Superintendent, F. N. Darby.
Process manufacture, Lowe.
Pop. Dist. supplied: winter, 2,509; summer, 40,000. No. meters, 350.
Miles of mains, approximate, 6.5.
Price gas, 1903: Light and Fuel, net, \$1.50.
No. public Welsbach lamps, 50.
Lighted all and every night.
Proportion sold for fuel purposes, 70 p. c.
Lowest pressure for gas stoves, 2.5 in.
Supplies Ocean City.

Essex and Hudson Division Public Service Corporation of N. J., Orange.

(See Newark.)

Paterson and Passaic Division Public Service Corporation of N. J., Paterson.

President, T. N. McCarter.
Secretary, Frederick Evans.
Treasurer, J. P. Dusenberry.
Pur. agent, J. A. Pearson, Philadelphia, Pa.
General manager, H. D. Whitcomb.
Proc. manf., Lowe and Hanlon-Leadley.
Pop. dist. supplied, 165,000. No. meters, 23,698.
Miles of mains, approximate, 177.
Price gas, 1903: Light and Fuel, gross \$1.15; net \$1.05.
No. public lamps, 545.
Price per year, \$17 to \$18.
Consumption per burner per hour, 6 c. f.
Price includes care, lighting and extinguishing.
No. hours lamp is lighted per year, 3,954.
Annual output, approx., 580,000,000 c. f.
Candle-power, 25 to 26.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 14,500.
Cities supplied: Paterson, Passaic, Garfield, Lodi, Hawthorne, Nutley, Franklin, Wallington, Totowa, Clifton, Little Falls, Manchester, Prospect Park, etc.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc sys. T. H. & Brush 1,075 (2,000 c. p.) and 440 (1,200 c. p.) arcs capac.
Incand. sys. Edison (Gen. Elec.) & Stanley 57,800 lamps capac.
Power generators, 2,900 kw.
Number of Public arcs 834 (2,000 c. p.) and 241 (1,200 c. p.)
No. Public incand., 525.
Lighting hours, arcs and incand., 3,933.
Price arc, Public per year, \$100 to \$140.
Price incand. Public, per yr. (25 c. p.) \$16.
Price arc, Com'l per mo. (1,200 c. p.) \$10.
Price incand. Com'l per hr. (16 c. p.) 1c.; kw-h., 15c. to 18c. with disc. 10 to 40 p. c.
Power used, Steam.
Cost of boiler fuel per ton, \$3.

THE **Welsbach** SYSTEM OF STREET LIGHTING is employed in the following cities: New York City, Philadelphia, Pa., Freehold, N.J., East Orange, N.J., New Haven, Conn., Brookline, Mass., Cambridge, Mass., New Rochelle, N.Y., Omaha, Neb., Springfield, O., Boston, Mass., New Bedford, Mass., Bridgeport, Conn., Dayton, O., Pensacola, Fla., St. Louis, Mo., Providence, R.I., San Francisco, Cal., Yonkers, N.Y., Milwaukee, Wis., Portland, Me., and various other cities. See advertisement, page xx.

Perth Amboy Gas Light Co., Perth Amboy.

Capital stock, \$65,000.
 President, P. Convery.
 Secretary, A. F. Reitemeyer.
 Treasurer, A. F. Reitemeyer.
 Purchasing agent, A. F. Reitemeyer.
 Superintendent, A. F. Reitemeyer.
 Process manufacture, Coal.
 Pop. dist. supplied, 27,000. No. meters, 1,070.
 Miles of mains, approximate, 17.
 Price gas, 1903: Light and Fuel, gross \$2; net \$1.60.
 Annual output, approx., 24,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 260.
 Cities supplied: Perth Amboy, Woodbridge and Maurer.

Easton Gas and Electric Co., Phillipsburg.

(For data see Easton, Pa.)

Supplied with gas and electricity from plants at Easton.

Central Division Public Service Corporation of N. J., Plainfield.

President, T. N. McCarter.
 Secretary, Frederick Evans.
 Treasurer, J. P. Dusenberry.
 Purchasing agent, J. A. Pearson, Phila., Pa.
 Superintendent at Plainfield, S. C. Campbell.
 Process manufacture, Lowe.
 Pop. dist. supplied, 33,700. No. meters, 3,500.
 Miles of mains, approximate, 63.
 Price gas, 1903: Plainfield; Light, Gross \$1.50; net \$1.40. Fuel, gross \$1.50; net \$1.25.
 Somerville: Light, \$1.50; fuel, \$1.40.
 Annual output, approx., 62,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 1,560.
 Cities supplied: Somerville, Plainfield, Bound Brook, Raritan, Etc.

ELECTRICAL DEPARTMENTS.**PLAINFIELD.**

(Operated under same name as gas company.)
 Incand. sys., West's alt., 22,000 lamps 895 kw. capacity.
 Power generators, 200 kw.
 Public incand. 1,341, (25 c. p.) lighted 4,000 hours.
 Price incand. Public, per year, \$15.50.
 Price incand. Com'l per kw. 9 to 18c. gross.
 Power used, Steam.
 Cost boiler coal per ton, varies.

SOMERVILLE.

(Operated under same name as gas company.)
 Arc sys., Gen'l Elec. 25 (606 amp. series) arc capac.
 Incand. sys., Gen'l Elec., 3,500 lamps, 280 kw. capac.

No. Public arcs 17; hours lighted, 4,000.
 No. Public incand. 239; hours lighted, 4,000.
 Price arc, Public, per year, \$80.
 Price arc, Com'l per kw-h., 15c.
 Price incand. Public per year, (25 c. p.) \$20; per kw-h., 15c.
 Price incand. Com'l per kw-h., 15c.
 Power used, Water and Steam.

Princeton Lighting Co., Princeton.

Capital stock, \$500,000.
 Bonds, \$300,000.
 President, C. P. Fitch.
 Vice-president, O. A. Parker.
 Secretary, T. B. Jackson.
 Treasurer, Sam'l H. Blackwell.
 Purchasing agent, Jas. E. Burke.
 Superintendent, Ignatz Hoff.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 750.
 Price gas, 1903: Light, \$1.80.
 Annual output, approx., 16,000,000 c. f.
 Candle-power, 23.
 Lowest pressure for gas stoves, 1.8 in.

ELECTRICAL DEPARTMENT.

(No report.)

Rahway Gas Light Co., Rahway.

Capital stock, \$124,820.
 President, Hamilton F. Kean.
 Secretary, H. Simmons.
 Treasurer, H. Simmons.
 Purchasing agent, H. Simmons.
 Superintendent, H. Simmons.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000. No. meters, 771.
 Price gas, 1903: Light and Fuel, gross \$1.75; net \$1.50.
 Annual output, approx., 17,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.4 in.
 Gas stoves in use, 198.
 Supplies Rahway.

Consolidated Gas Co. of New Jersey, Red Bank.

(Distributing station. See Long Branch.)
 Superintendent, C. W. Bennett.

Ridgewood Gas Co., Ridgewood Junction.

Capital stock, \$100,000.
 Bonds outstanding, \$100,000; interest 5 p. c.
 President, J. W. Pearsall.
 Secretary and treas., Wm. E. Stewart.
 Superintendent, G. H. Soult.
 Process manf., Western Gas Construction Co.
 No. meters, 460.
 Miles of mains, approximate, 12.5.
 Price gas, Light, gross \$1.50; Fuel, gross 85c.
 Annual output, approx., 15,000,000 c. f.

South Jersey Division, Public Service Corporation of New Jersey, Riverton.

(See Camden.)

THE WELSBACH STREET LIGHTING COMPANY OF AMERICA furnishes a special Park Lamp, which is particularly suitable for the lighting of public parks and boulevards. See advertisement, page xx

Gas and Electric Co. of Bergen County, Rutherford.

(See Hackensack.)

Salem Gas Light Co., Salem.

Capital stock, \$30,920; annual div., 8 p. c.
 President, Martin P. Grey.
 Secretary, John F. Prendergast.
 Treasurer, W. Graham Tyler.
 Pur. agt., W. Graham Tyler, Philadelphia.
 Superintendent, John F. Prendergast.
 Process manufacture, Coal.
 Population, city, 6,000. No. meters, 511.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light and Fuel, gross \$1.67;
 net \$1.45.
 No public Welsbach lamps, 21.
 Consumption per burner per hour, 3 c. f.
 Contract includes repairs, care, lighting
 and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output approx., 9,139,800 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 70 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 253.
 Supplies Salem.

Central Division, Public Service Corporation of New Jersey, Somerville.

(See Plainfield.)

Citizens Light and Fuel Co., South Amboy.

President, A. P. Bachman.
 Treasurer, F. M. Jeffries.
 Agent, Wm. Stephenson.
 Process manufacture, Hayes (coal).
 Pop. dist. supplied, 6,700. No. meters, 310.
 Miles of mains, approximate, 7.5.
 Price gas, 1903: Light and Fuel, gross \$1.60;
 net \$1.50.
 Annual output, approx., 4,425,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 3 in.
 Supplies South Amboy.

Essex and Hudson Division, Public Service Corporation of New Jersey, Summit.

(See Newark.)

Swedesboro Gas Co., Swedesboro.

Capital stock, \$35,000.
 Bonds, \$25,000; due, 1932; interest 5 p. c.
 President, A. M. Worstal, Philadelphia.
 Secretary, A. E. Pugh.
 Treasurer, C. E. Pugh.
 Superintendent, S. H. Mounce.
 Process manufacture, Lowe.
 Pop. dist. supplied, 2,000. No. meters, 200.
 Miles of mains, approximate, 5.
 Price gas, 1903: \$1.65.
 Annual output, approximate, 2,000,000 c. f.
 Candle power, 18.
 Proportion sold for fuel purposes, 80 p. c.
 Gas stoves in use, 90.
 Supplies Swedesboro.

ELECTRICAL DEPARTMENT.

(Business under name of New Jersey Southern Gas and Electric Co.)

Arc system, Ft. Wayne, 100 (1,200 c. p.) arcs capacity.

Incandescent system, Stanley.

No. public arcs (1,200 c. p.) 60; hours lighted, 1,800.

No. public incand., 600; hours lighted, 1,800.

Price arc Public, per year, \$65.

Price incand., Public, per year, \$12; per kw. gross, 15c.; disc., 10 p. c.

Price arc, Com'l, per mo., (1,200 c. p.) \$5.

Power used, Steam and Water.

Cost boiler coal per ton, \$3.20.

Supplies towns of Williamstown, Glassboro, Clayton, Pitman, Wenonah and Swedesboro.

South Jersey Division, Public Service Corporation of New Jersey, Trenton.

(See Camden.)

Tuckertown Gas Co., Tuckertown.

(New company.)

Capital stock, \$25,000.

Bonds, \$25,000; due, 1933; int. 5 p. c.

President, A. M. Worstall.

Secretary, T. W. Speck.

Treasurer, F. R. Austin.

Superintendent, F. R. Austin.

Process manufacture, Lowe.

Population district supplied, 1,500.

Miles of mains, approximate, 5.

Price gas, 1904: \$1.65.

Annual output, approximate, 2,000,000 c. f.

Candle power, 18.

Proportion sold for fuel purposes, 70 p. c.

Supplies Tuckertown.

Vineland Light and Power Co., Vineland.

Capital stock, \$60,000.

Bonds, \$60,000; due 1913; interest, 5 p. c.

President, H. C. Himes.

Secretary, Edith V. Youngquist.

Treasurer, Wm. Macgeorge.

Purchasing agent, Wm. Macgeorge.

Superintendent, A. H. Merritt.

Process manufacture, Coal.

Pop. dist. supplied, 6,000. No. meters, 651.

Miles of mains, approximate, 17 to 18.

Price gas, 1903: Light and Fuel, gross \$1.50;
net \$1.43.

No. public lamps, 19. Price per year, \$21.66.

Consumption per burner per hour, 3 c. f.

Price includes repairs, care, lighting and
extinguishing.

No. hours lamp is lighted per year, 2,221.

Annual output, approx., 15,000,000 c. f.

Candle-power, 20.

Proportion sold for fuel purposes, 50 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 300.

South Jersey Division, Public Service Corporation of New Jersey, Woodbury.

(See Camden.)

Extract from report of the Chief Engineer of Fairmount Park, Philadelphia, in regard to Welsbach Park Lights: "The **Welsbach** Lights with which you are now lighting the great pleasure ground of the city of Philadelphia are giving great satisfaction, adding greatly to the attractiveness of the Park."

See advertisement, page xx.

Albuquerque Gas, Electric Light and Power Co., Albuquerque.

Capital stock, \$200,000.
 Bonds \$200,000; due 1922, interest, 5 p. c.
 President, W. S. Iliff.
 Secretary, C. K. Durbin.
 Treasurer, O. S. Moore.
 Superintendent, L. W. Le Baron.
 Manager, E. C. Allen.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 325.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, \$2.75; net \$2.25. Fuel, net \$1.75.
 Annual output, approx., 11,000,000 c. f.
 Candle-power, 16.

Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 75.

ELECTRICAL DEPARTMENT.

Arc system, alt., 150 (2,000 c. p.) 100 (1,200 c. p.) arcs capacity.
 Incand. system, 12,000 lamps capacity.
 No. public arcs, 50; lighted by moon scale.
 No. public, incand., 16.
 Price arc, Public, per year, \$60.
 Price incand., Public, per yr., to 10 P. M., \$5.
 Price incand., Com'l, per kw., 10c.
 Power used, Steam.
 Cost boiler coal per ton, \$2.75.

NEW YORK.**Municipal Gas Co., Albany.**

Capital stock, \$2,000,000; annual div., 10 p. c.
 Bonds, \$500,000; due 1905; interest, 6 p. c.
 President, Anthony N. Brady.
 Vice-president, Robert C. Pruyn.
 Secretary, Henry Bronk.
 Treasurer, Henry Bronk.
 Superintendent, Frank S. Dunn.
 Process manufacture, Springer.
 Pop. dist. sup., 100,000. No. meters, 14,000.
 Miles of mains, approximate, 85.
 Price gas, 1903: Light, \$1.30; Fuel, \$1.
 Annual output, approx., 275,000,000 c. f.
 Candle-power, 26.
 Proportion sold for fuel purposes, 15 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 3,000.
 Supplies Albany and Watervliet.

No. public incand., 10; lighted all and every night.
 Price arc, public per year, \$65.
 Price incand., public per year, \$12.
 Price arc, Com'l per month (1,200 c. p.), \$15.
 Price incand., Com'l per kw., gross, 12.5c.; dis., 10 p. c.
 Power used, Water and Steam.
 Cost boiler coal, per ton, \$3.25.

Chuctanunda Gas Light Co., Amsterdam.

Capital stock, \$125,000.
 President, Stephen Sanford.
 Vice-president, John Kellogg.
 Secretary, John K. Stewart.
 Treasurer, D. D. Cassidy.
 Purchasing agent, Wm. H. Cooper.
 Superintendent, Wm. H. Cooper.
 Process manufacture, Coal.
 Pop. dist. supplied, 25,000. No. meters, 1,900.
 Miles of mains, approximate, 17.
 Price gas, 1903: Light and Fuel, gross and net \$1.25; discount, 15c.
 No. public Welsbachs, 2.
 Consumption per burner per hour, 4 c. f.
 Contract includes repairs, care, lighting and extinguishing.
 Annual output, approx., 58,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 800.
 Supplies Amsterdam.

Albion Power Co., Albion.

Capital stock, auth., \$200,000; issued, \$150,000.
 Bonds, \$135,000; due 1922; interest, 5 p. c.
 President, Frank A. Dudley.
 Secretary, Sandford T. Church.
 Treasurer, Lucien H. Tyng.
 Gen'l mgr. and pur. agt., Wallace C. Johnson.
 Superintendent, J. H. Rollins.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 350.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.35.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, about 135.
 Supplies Albion.

Auburn Gas Co., Auburn.

Capital stock, \$500,000.
 President, E. H. Palmer.
 Secretary, Geo. B. Longstreet.
 Treasurer, Chas. D. Robison.
 Purchasing agent, E. H. Palmer.
 Superintendent, Chas. D. Robison.
 Process manufacture, Coal.
 Pop. dist. supplied, 36,000. No. meters, 2,200.
 Miles mains, approximate, 40.
 Price gas, 1903: Light and Fuel, gross \$1.30 to \$1.50; net \$1.17 to \$1.35.
 Annual output, approx., 60,000,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 40 p. c.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Brush, D. C. 80 (2,000 c. p.) arcs capac.; 150 (1,200 c. p.) arcs capac.
 Incand. system, Gen. Elec.; A. C., 3,500 lamps capacity.
 Power generators, 250 kw. capacity.
 No. public arcs (2,000 c. p.), 60 hours lighted, 1,600.

THE INCREASED CANDLE POWER of the Improved **Welsbach** Street Light is all utilized because it is distributed horizontally and below the horizontal plane in every direction. See advertisement, page xx.

Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 900.
Supplies Auburn.

Citizens Light and Power Co. of Auburn, Auburn.

Capital stock, \$250,000.
President, G. B. Leonard.
Secretary, F. T. Pierson.
Treasurer, A. M. Michael.
General manager, C. D. Beebe.
Assist. gen. manager, J. S. McCabe.
Process manufacture, Lowe.
No. meters, 2,000.
Miles of mains, approximate, 15.
Price gas 1902: Light gross, 60c.; net, 50c.
Annual output, approx., 55,000,000.
Candle-power, 21.5.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 441.
Supplies Auburn.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

(New plant.)

Arc system, Ft. Wayne.
Incand. system, Westinghouse.
Power generators, 240 kw. capacity.
Power used, Steam.
Cost boiler coal per ton, \$2.72.

Ballston Spa Light and Power Co., Ballston Spa.

Capital stock, \$35,000.
Bonds outstanding, \$35,000; interest, 5 p. c.
President, Eugene W. Ashley.
Secretary, Elmer J. West.
Treasurer, Elmer J. West.
Purchasing agent, Patrick F. Roohan.
Superintendent, Patrick F. Roohan.
Process manufacture, Coal.
Pop. dist. supplied, 5,000. No. meters, 150.
Price gas, 1903: Light, gross \$2.50.
Annual output, approx., 1,825,000 c. f.
Candle-power, 20.
Lowest pressure for gas stoves, 1.6 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Incand. system, West'se, 5,500 lamps capac.
No. public incandescents, 209.
Price incand., Public, per year, 25 c. p., \$18.50.
Price incand., Com'l, per mo., 16 c. p., 75c.
Power used, Steam.
Cost boiler fuel per gross ton, \$3.95.

Consolidated Gas and Electric Co., Batavia.

(Plant now in hands of receiver, with Wm. H. Hayden as supervisor.)

Capital stock, \$200,000.
Bonds outstanding, \$300,000; interest, 5 p. c.
President, D. Y. Lewis.
Secretary, R. C. Garhart.
Treasurer, John Thomas.
Process manf., Lowe.
Pop. dist. supplied, 9,500. No. meters, 450.
Miles of mains, approximate, 8.5.
Price gas, 1903: Light and fuel, gross \$1; net 95c.
Annual output, approx., 7,000,000 c. f.
Candle-power, 22.

Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2 in.
City supplied with natural gas.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, A. C.
Incand. system, West'se, 3,000 lamps capac.
Power generators, 650 kw. capacity.
Price per kw. gross, 10c., disc., 5 p. c.
Power used steam.
Cost boiler fuel per ton, \$3.

Bath Electric and Gas Light Co., Bath.

Capital stock, \$100,000.
Bonds issued, \$100,000; due 1918; int., 5.5 p. c.
President, Clarence P. King.
Sec'y and treas., John W. Pittock.
Manager and pur. agent, F. B. Aldrich.
Superintendent, John W. Rich.
Process manufacture, Coal.
Pop. dist. supplied, 5,000. No. meters, 236.
Miles of mains, approximate, 4.
Price gas, 1903: Light gross and net, \$2. Fuel, gross and net, \$1.50.
Annual output, approximate, 4,136,100 c. f.
Candle-power, 18.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 140.
Supplies Bath.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 125 (1,200 c. p.) arcs capac.
Incand. system, Gen. Elec., Western, 1,750 lamps capacity.
No. public arcs, (1,200 c. p.) 72.
Lighting hours, public arc and incand., 4,000.
Price arc, Public, per year, \$69.44.
Price arc, Comm'l, per month, \$2.50.
Price incand., Com'l, 16 c. p., per mo., 50c.; per kw., 10c. to 18c.
Power used, Water and Steam.

Suffolk Gas and Electric Light Co., Bay Shore.

Capital stock, \$150,000.
Bonds \$150,000; due 1918, interest 5 p. c.
President, W. B. Hord.
Secretary, Victor Cumberson.
Treasurer, C. F. Street.
Pur. agent, Edgar L. Street.
Superintendent, A. M. Hallock.
Process manufacture, Lowe.
Pop. dist. supplied, 6,000 winter; 10,000 summer. No. meters, 864.
Miles of mains, approximate, 22.5.
Price gas, 1903: Gross and net, Light \$2; Fuel, \$1.50.
No. public lamps, 162.
Price per year, \$20.
Consumption per burner per hour, 4 c. f.
Price includes repairs, care, lighting and extinguishing.
Hours lighted per year, 4,000.
Annual output, approx., 20,000,000 c. f.
Candle-power, 21.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 432.
Villages supplied: Bay Shore and Islip.

Extract from report of Brooklyn Parks:

"The **Welsbach** Lights are better adapted for Park Roads, being closer to the ground and free from shadows, and giving a clear, straight, white light." See advertisement, page xx.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Incand. system, West'se, 1,500 lamps capac.
Power generators, 45 kw. capacity.
No. public incand., 106; lighted 4,000 hours.
Price incand., Public, per year (24 c. p.), \$18.
Price incand., Com'l, per month (16 c. p.), 90c.
to 50c.; per kw., 20c.
Power used, two 3-cyl. Westinghouse Gas
Engines using 3,000,000 c. f. of gas.
Cost boiler fuel per ton, \$3.80.

Binghamton Gas Works, Binghamton.

Capital stock, \$750,000; annual div., 5 p. c.
Bonds, \$658,000; due 1948; interest, 5 p. c.
President, Emerson McMillin.
Secretary, W. B. Mahoney.
Treasurer, Robt. W. Manier.
Gen. mgr. and pur. agt., F. B. Wheeler.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 44,000. No. meters, 5,718.
Miles of mains, approximate, 43.
Price gas, 1904: Light and Fuel, gross \$1.50;
net \$1.25.
No. public lamps, 208. All Welsbachs.
Consumption per burner per hour, 3 c. f.
Contract does not include repairs, care,
lighting and extinguishing.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 112,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 45 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 4,600.
Cities supplied: Binghamton, Lestershire.

Brockport Gas Light Co., Brockport.

Capital stock, \$25,000.
Bonds, \$20,000; due 1917; interest, 6 p. c.
President, Wm. H. Fritchman.
Secretary, John F. Bush.
Treasurer, William MacBain.
Purchasing agent, John F. Bush.
Superintendent, George P. Trout.
Process manufacture, Coal.
Pop. dist. supplied, 5,000. No. meters, 380.
Miles of mains, approximate, 9.
Price gas, 1902: Light and Fuel, gross \$1.60;
net \$1.50.
Annual output, approx., 5,500,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 2 in.

Brooklyn Union Gas Co., Brooklyn.

Capital stock, auth., \$20,000,000; issued
\$15,000,000.
Annual dividend, 8 p. c.
Bonds, \$15,000,000; due 1945; interest, 5 p. c.
Debentures, \$3,000,000; due, 1909; int. 6 p. c.
Convertible into stock, 1907.
President, Jas. Jourdan.
Secretary, Walter K. Rossiter.
Treasurer, E. R. Chapman.
Asst. treas. and auditor, A. F. Staniford.
Pur. agent, and ass't sec'y, F. B. Jourdan.
Engrs., Fred. S. Benson and J. H. Jourdan.
Process manufacture, Mayer Wilkinson and
Tessie du Motay.

Pop. dist., 1,500,000. No. meters, 210,413.
Miles of mains, approximate, 805.
Price gas, 1903: Light & Fuel, gross and net \$1.
No. public lamps, 10,612. Price, open flame,
per year, \$16.
Consumption per burner per hour, 3 c. f.
Price includes repairs, care, lighting and
extinguishing.
No. hours lamp is lighted per year, 4,000.
No. public Welsbach lamps, 4,325 (incl. above).
Annual output, approx., 6,700,000,000 c. f.
Candle-power, 27.
Lowest pressure for gas stoves, 1.5 in.

Flatbush Gas Co., Brooklyn.

Capital stock, \$200,000.
Bonds, \$190,000; due 1st mortgage 1911; int.,
5 p. c.; 2d mortgage 1914; int., 6 p. c.
President, E. R. Chapman.
Secretary and Treasurer, A. F. Staniford.
Asst. treas., J. H. Benedict.
Purchasing agent, F. B. Jourdan.
General manager, Henry E. McGowan.
Superintendent, E. R. Ellsworth.
Gas purchased from Brooklyn Union Gas Co.
Pop. dist. supplied, 40,000. No. meters, 4,900.
Miles of mains, approximate, 60.
Price gas, 1903: Light and Fuel, gross and
net, \$1.
No. pub. lamps, 529. Including 87 Welsbachs.
Price open flame per year, \$16.
Consumption per burner per hour, 3 c. f.
Price includes repairs, care, lighting and
extinguishing.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 180,000,000 c. f.
Candle-power, 27.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 3,000.
Supplies 29th Ward.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
gas company.)

Arc system, Excelsior, Gen. Elec., Brush,
750 (1,200 c. p.) arcs capacity.
Incand. system, West'se, 15,000 lamps capac.
Power generators, 780 kw. capacity.
No. public arcs, 618; hours lighted, 3,950.
Price arc, Public, per year, \$97.50.
Price arc, Commercial, per month, \$10.50.
Price incand., Com'l, per kw-h., 20c.; disc. 10
to 50 p. c.
Power used, Steam.
Cost coal per ton, \$3.

Kings County Gas and Illuminating Co., Brooklyn.

Capital stock, \$1,000,000.
Bonds outstanding, \$750,000; interest, 5 p. c.
President, C. K. G. Billings.
Sec'y and treas., W. G. Phillips.
Superintendent, T. E. Byrne.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 45,000.
No. meters in service, 4,391.
Price gas, 1903: Light and Fuel, gross and
net \$1.
No. public lamps, 4,281. Price per year, \$28.
Consumption per burner per hour, 4 c. f.

THE Welsbach STREET LIGHT possesses absolute immunity from flickering or smoke in the lanterns; also from bugs and other outside obstructions to illumination. See advertisement, page xx.

Price includes repairs, care and lighting.
No. hours lamp is lighted per year, 3,900.
Annual output, approx., 275,000,000 c. f.
Candle-power, 22-23.
Proportion sold for fuel purposes, 15 p. c.
Lowest pressure for gas stoves, 1.4 in.
Gas stoves in use, 1,800.
Supplies South Brooklyn, comprising Bay Ridge, Bath Beach, Bensonhurst, etc.

Buffalo Gas Co., Buffalo.

Capital stock, pref. \$2,000,000; com., 7,000,000.
Bonds, \$5,900,000; due 1947; interest, 5 p. c.
President, Alex. C. Humphreys.
Secretary, William S. Riselay.
Treasurer, William S. Riselay.
Pur. agent, Wm. S. Riselay or Jno. T. Herron.
Engineer, John T. Herron.
Process manufacture, Coal.
Pop. dist. suppl'd, 353,000. No. meters, 15,921.
Miles of mains, approximate, 374.
Price gas, 1903: Light and Fuel, gross \$1.20; net \$1.
No. public lamps, 5,823, inc. 196 Welsbachs.
Price open flames per year, \$12.64.
Consumption per burner per hour, 4 c. f.
Price does not include repairs, care, lighting or extinguishing.
No. hours lamp is lighted per year, 3,948.5.
Annual output, approx., 647,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 15 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 2,690.

Peoples Gas Light and Coke Co. of Buffalo, Buffalo.

(Works leased by Buffalo Gas Co.)
Capital stock, \$3,000,000.
Bonds \$2,100,000; due, 1928; interest, 5 p. c.
President, Edw. M. Mills.
Sec'y and treas., William S. Riselay.
Engineer, John T. Herron.
Process manf., Merrifield-Westcott-Pearson.
Miles of mains, approx., 7.

Canandaigua Gas Light Co., Canandaigua.

Capital stock, \$50,000.
President, J. H. Pardee.
Secretary, H. B. Ferguson.
Treas. and pur. agt., J. H. Pardee.
Superintendent, Wm. McIntyre.
Process manufacture, Coal.
Pop. dist. supplied, 7,000. No. meters, 550.
Miles of mains, approximate, 8.
Price gas, 1903: Light, gross \$2.50; net \$1.50 to \$2. Fuel, gross \$1.50; net \$1.25.
No. public lamps, 13. Price per year, \$23.55.
Consumption per burner per hour, 5 c. f.
Price includes repairs and care, lighting and extinguishing.
Lighted after 1 A. M.
Annual output, approx., 8,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 100.

Catskill Illuminating and Power Co., Catskill.

Capital stock, \$65,000.
Bonds, \$65,000; due 1923; interest, 5 p. c.

President, W. S. C. Wiley.
Secretary, A. O. Shepardson.
Treasurer, W. E. Lampman.
Purchasing agent, Thos. F. Walsh.
Supt. gas dept., Thos. F. Walsh.
General manager, W. S. C. Wiley.
Process manufacture, Coal.
Pop. dist. supplied, 5,400. No. meters, 490.
Miles of mains, approximate, 6.
Price gas, 1903: Light, gross \$2; net \$1.90.
Fuel, gross \$2; net \$1.50.
No. public lamps, 2; price per year, \$17.50.
No. hours lighted, 3,650.
Annual output, approx., 8,480,900 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 200.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, G. E., 57 (1,200 c. p.) arcs capac.
Incand. system, G. E. (25 c. p.) 65.
Power generators, 225 kw. capacity.
No. public arcs, 57; lighted 1,716 hours.
No. public incand., 65; lighted 1,716 hours.
Price all arc and incand., Public, per year, \$4,290.
Price incand., Commercial, per kw-h., 17.5c.
Disc., 12.5, 25 and 30 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$3.25.

Clifton Springs Sanitarium Co., Clifton Springs.

(Private works supplying Sanitarium.)
Superintendent, M. E. Foster.
Assistant supt., Henry J. Bostwick.
Process manufacture, Sutherland.
Population, 1,500. No. consumers, Sanitarium and 60 in village.
Miles of mains, approximate, 2.
Price gas, 1903: Light and Fuel, net \$1.
Annual output, approx., 12,200,000 c. f.
Candle-power, 18.

ELECTRICAL DEPARTMENT.

(Operated also by the Sanitarium.)

Incand. plant consisting of 3 dynamos with a capacity of 1,600 lamps.

Clyde Gas Co., Clyde.

(Plant shut down; may resume business.)
Process manufacture, Water-gas.
Miles of mains, approximate, 5.

ELECTRICAL DEPARTMENT.

Incandescent system, 1,600 capacity.

Cohoes Gas Light Co., Cohoes.

President, Wm. E. Thorn.
Sec'y and pur. agent, D. H. Van Auken.
Treasurer, Wm. E. Thorn.
Superintendent, D. H. Van Auken.
Process manufacture, Lowe.
Price gas, 1903: Light, gross \$1.50.

"I would state that the **Welsbach** System of Street Lighting that was installed in this city in June, 1898, has proved entirely satisfactory to this Department."

(Signed) WILLIAM D. LANG, Superintendent of Lamps, Boston, Mass.

See advertisement, page xx.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Ft. Wayne.

Incand. system, West'se alt.

Power used, Water.

Brooklyn Borough Gas Co., Coney Island.

Capital stock, \$500,000.

President, Richard L. Austin.

Secretary, Louis N. Speilberger.

Treasurer, Robert Picken.

Supt. and mgr., J. J. Humphreys, Jr.

Process manf., Lowe.

Pop. dist. supplied, 20,000.

No. meters, summer, 2,000; winter, 1,400.

Miles of mains, approximate, 35.

Price gas, 1903: Light and Fuel, \$1.25.

Annual output, approx., 90,000,000 c. f.

Candle-power, 25.

Supplies 31st Ward of Brooklyn.

Cooperstown Gas Co., Cooperstown.

Capital stock, \$6,150.

President, G. Kalkinstein.

Secretary and treasurer, W. P. R. Fuller.

Superintendent, G. Kalkinstein.

Process manufacture, Coal and Oil.

Pop. dist. supplied, 3,000. No. meters, 70.

Miles of mains, approximate, 4.

Price gas, 1903: Light and Fuel, gross, \$2; net \$1.50.

Annual output, approx., 1,500,000 c. f.

Candle-power, 20.

Proportion sold for fuel purposes, 20 p. c.

Lowest pressure for gas stoves, 1 in.

Gas stoves in use, 20.

Corning Gas and Electric Co., Corning.

Capital stock, \$375,000.

Bonds, \$350,000; due 1951; interest, 5 p. c.

President, Daniel J. Creem.

Secretary, M. J. Warner.

Treasurer, H. L. Merry.

Purchasing agent, W. H. Christie.

Superintendent, W. H. Christie.

Cashier, John E. Gill.

Process manufacture, Coal.

Pop. dist. supplied, 12,000. No. meters, 750.

Miles of mains, approximate, 7.

Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.40.

Annual output, approx., 28,000,000 c. f.

Candle-power, 20.

Proportion sold for fuel purposes, 15 p. c.

Lowest pressure for gas stoves, 1.5 in.

Gas stoves in use, 200.

Supplies Corning.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, West'se enclosed, 125 (2,000 c. p.) arcs capacity.

Incandescent system, West'se, 3,000 lamps capacity.

No. public arcs, 93; lighted all and every night.

Price arc, Public, per year, \$80.

Price incand., Commercial, per kw-h., 12c.; disc., 2c.; net, 10c.

Power used, Steam.

Cost boiler fuel per ton, \$2.65.

Homer and Cortland Gas Light Co., Cortland.

Capital stock, \$100,000.

Bonds, \$100,000; due 1909; interest, 5 p. c.

President, William T. Morris.

Sec'y and treas., W. W. Miller.

Purchasing agent, William T. Morris.

General manager, T. W. Summers.

Superintendent, J. P. Gray.

Superintendent of Works, C. A. Schwarm.

Process manufacture, Coal.

Pop. dist. supplied, 14,000. No. meters, 900.

Miles of mains, approximate, 14.

Price gas, 1903: Light, gross \$1.75; net \$1.50 Fuel, net \$1.25.

Annual output, approx., 9,000,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 10 p. c.

Lowest pressure for gas stoves, 2 in.

Dansville Gas and Electric Co., Dansville.

Capital stock, \$80,000.

Bonds, \$75,000; due 1930; interest, 5 p. c.

President, F. A. Owen.

Process manufacture, Lowe.

Pop. dist. supplied, 4,500. No. meters, 200.

Price gas, 1903, net: Light, \$2; Fuel, \$1.50.

Annual output, approx., 5,000,000 c. f.

Candle-power, 20.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 2.5 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 60 arcs capacity.

Incand. system, West'se, 2,750 lamps capac.

No. public arcs, 48; lighted 12 P. M. moon scale.

Price arc, Public, per year, \$63.

Price arc and incand., Com'l, per kw., 10c. to 15c.

Power used, Steam.

Cost boiler fuel per ton, \$2.30.

Citizens Gas and Fuel Co., Dunkirk.

Capital stock, \$125,000.

Bonds, \$125,000; due 1926; interest, 5 p. c.

President, W. B. Hord.

Secretary, Victor Cumberson.

Purchasing agent, J. N. Dickerson.

Supt. and mgr., J. N. Dickerson.

Process manufacture, Coal.

Pop. dist. supplied, 15,000. No. meters, 1,050.

Miles of mains, approximate, 11.

Price gas, 1903: Light and fuel, \$1.25.

Annual output, approx., 30,000,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 50 p. c.

Lowest pressure for gas stoves, 3 in.

Gas stoves in use, 600.

Supplies Dunkirk.

Elmira Water, Light and Railroad Co., Elmira.

President, Ray Tompkins.

Vice-pres. and general manager, W. W. Cole.

Sec'y and treas., J. M. Diven.

Supt of mfr., F. S. Benson, Jr.

Process manufacture, Coal.

The "Candle Power" given by the IMPROVED **Welsbach** STREET LIGHT is more efficient for street illuminations than that obtained by any other means. See advertisement, page xx.

Pop. dist. supplied, 35,000. No. meters, 3,089.
Miles of mains approximate, 31.
Price gas, 1903: Light, gross \$1.75; net \$1.50.
Fuel, gross \$1.25; net \$1.10.
Annual output, approx., 50,000,000 c. f.
Candle-power, 17.5.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 1,563.

ELECTRICAL DEPARTMENT.

No. public arcs (2,000 c. p.) 386.
No. public incand. (60 c. p.) 490.
Price per kw., gross; arcs, 10c.; incand., 15c.;
discount, 10 p. c.
Power used, steam.
Cost boiler coal, per ton, \$2.60.

Queens Borough Gas and Electric Co., Far Rockaway.

(Two works, Far Rockaway and Rockaway Beach, summer resorts.)

Capital stock, \$2,000,000.
Bonds outstanding, \$1,600,000; interest, 5 p. c.
President, V. Everit Macy.
Secretary, G. D. Gregory.
Treasurer, Carleton Macy.
Gen'l Superintendent, L. B. Sharp.
Process manufacture, Lowe and Coal.
Pop. dist. supplied, winter, 8,000; summer, 75,000. No. meters, 2,400.
Miles of mains, approximate, 18.
Price gas, 1903: Light, gross \$1.80; net, \$1.70.
Fuel, gross \$1.80; net \$1.60.
Annual output, approx., 30,000,000 c. f.
Candle-power, 25.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 600.
Supplies Rockaway, Far Rockaway, Averno, Lawrence, Cedarhurst and Edgemere.

ELECTRICAL DEPARTMENT.

Arc system, G. E., (2,000 c. p.) 260 arcs capac.
Incand. system, G. E., 30,000 lamps capacity.
Power generators, 1,600.
No. public arcs, 165 (2,000 c. p.); hours lighted, 3,810.
Price arc, Com'l, per month, \$10. Per kw., gross 20c.; disc., up to 25 p. c.
Power used, Steam.
Cost boiler coal per ton varies.

Fishkill and Matteawan Gas Co., Fishkill-on-Hudson.

Capital stock, \$100,000.
Bonds, \$75,000; due 1922; interest, 5 p. c.
President, L. M. Serrell.
Purchasing agent, R. G. Bucklin.
Superintendent, R. G. Bucklin.
Process manufacture, Sutherland.
Pop. dist. supplied, 12,000. No. meters, 600.
Miles of mains, approximate, 10.
Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.50.
Annual output, approx., 9,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 1.8 in.

Gas stoves in use, 400.

Towns supplied: Fishkill Landing, Matteawan and Fishkill Village.

Newtown and Flushing Gas Co., Flushing.

Capital stock, pref., \$50,000; com., \$300,000.
Annual div., 6 p. c. on pref. only.
Bonds, \$300,000; due 1930; interest, 5 p. c.
President, Frank Tilford.
Vice-presidents, Henry R. Wilson and Chas. Thomas.
Sec'y and treas., Henry L. Snyder.
General manager, Chas. Thomas.
Superintendent, Maynard H. Spear.
Process manufacture, Lowe.
Pop. dist. supplied, 20,000. No. meters, 2,550.
Miles of mains, approximate, 41.
Price gas, 1903: Light and Fuel, gross and net \$1.25.
No. public Welsbach lamps, 175.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 90,000,000 c. f.
Candle-power, 24.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, over 2,000.
Towns supplied: Flushing, College Point and Whitestone.

United Gas, Electric Light and Fuel Co., Fort Edward.
(See Sandy Hill.)**Fort Plain Gas and Electric Light, Heat and Power Co., Fort Plain.**

Capital stock, \$31,000.
President, Wm. Yerdon.
Sec'y and treas., A. Dunn.
Purchasing agent, A. Dunn.
Superintendent, A. A. Miller.
Process manufacture, Lowe.
Pop. dist. supplied, 2,500. No. meters, 200.
Miles of mains, approximate, 4.
Price gas, 1903: Light, \$2 net. Fuel \$2.
Annual output, approx., 1,200,000 c. f.
Candle-power, 20.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 10.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company. Current purchased and supplied from East Creek.)

No. public arcs, 65; lighted all night, every night.
Price arc, Public, per year, \$60 (2,000 c. p.)
Price arc, Commercial, per month, \$3 to \$4.
Price incand., Com'l, per mo., 16 c. p., 50c.
32 c. p., \$1; per kw-h., 10c.
Power used, Water.

Fredonia Natural Gas Light Co., Fredonia.

Capital stock, \$40,000; annual div., 4 p. c.
President, Frank May.
Sec'y and treas., M. M. Fenner.
Purchasing agent, M. M. Fenner.
Superintendent, Andrew Kuzneske.
Process manufacture, Coal.
Population 1903, 5,000. No. meters, 600.
Miles of mains, approximate, 9.

Extract from report of Department of Public Works, New York City:

"I was very much surprised during a recent visit to Paris to discover that the **Welsbach** had superseded electricity on all the grand avenues, especially the Champs Elysees."

See advertisement, page xx.

CHAS. H. T. COLLIS, Commissioner.

Price gas, 1903: Light, gross \$1.75; net \$1.50.
 Fuel, gross \$1.25; net \$1.
 Annual output, approx., 8,868,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 54 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 310.
 Supplies Fredonia.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Dunkirk and Fredonia R. and Electric Co.)

Arc syst., Gen. Elec., 100 (2,000 c. p.) arcs capac.
 Incand. syst., West'se, 3,000 lamps capacity.
 Price arc, Commercial, per month, \$2.50.
 Price incand., Commercial, per month, 16 c. p., 30c.; per kw-h., 10c.
 Power used, Steam.
 Cost boiler coal, per ton, \$2.

Fulton Fuel and Light Co., Fulton.

Capital stock, \$125,000.
 Bonds, \$100,000; due 1927; interest, 5 p. c.
 President, J. A. Foster.
 Vice-president, H. W. Noble.
 Sec'y and pur. agent, C. W. Tippy.
 Treasurer, W. E. Moss.
 General manager, C. W. Tippy.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 700.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light and Fuel, gross \$1.35; net \$1.25.
 Candle-power, 20.
 Gas stoves in use, 377.
 Supplies Fulton.

Garden City Gas Works, Garden City.

(Sold to Nassau Gas Light Co., Hempstead.)

Geneseo Gas Light Co., Geneseo.

Capital stock, \$16,000.
 Bonds \$12,000, due 1907; interest, 5 p. c.
 President, W. A. Brodie.
 Secretary, Alex. Wyness, Jr.
 Treasurer, G. B. Adams.
 Purchasing agent, A. Wyness, Jr.
 Superintendent, A. Wyness, Jr.
 Process manufacture, Coal.
 Pop. dist. supplied, 2,800. No. meters, 150.
 Miles of mains, approximate, 3.
 Price gas, 1903: Light, gross and net \$2.
 Fuel, net \$1.50.
 No. public lamps, 5. Price per year, \$15.
 Consumption per burner per hour, 4 c. f.
 Price does not include repairs, care, lighting and extinguishing.
 Lamps are lighted 12 P. M. to daylight.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 1.1 in.
 Gas stoves in use, about 50.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Ft. Wayne, 60 (2,000 c. p.) arcs capacity.
 Incand. system, Ft. Wayne, 750 lamps capac.

No. public arcs, 46; lighted until midnight.
 Price arc, Public, per year, \$65.
 Price incandescent, Commercial, per month, 16 c. p., 70c.; 32 c. p., 90c.; per amp-h., 1c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.50.

Geneva Gas Co., Geneva.

Capital stock, \$100,000; annual div., 5 p. c.
 Bonds, \$100,000; year due, 1917; int., 5 p. c.
 President, E. H. Palmer.
 Secretary, L. G. Haskins.
 Treasurer, C. J. Root.
 Purchasing agent, E. Seybolt.
 Superintendent, S. S. Graves.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 1,450.
 Miles of mains, approximate, 18.
 Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.50.
 No. public Welsbach lamps, 10.
 Hours lighted per year, 4,000.
 Annual output, approx., 32,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 600.

John H. Starin, Glen Island.

(Private plant operated in the pleasure resort of Glen Island.)
 Owner, John H. Starin.
 Superintendent, James Glennon.
 Process manufacture, Granger.
 Miles of mains, approximate, 3.
 No. public lamps, 670.
 Annual output, approx., 2,850,000 c. f.
 Proportion used for fuel purposes, 75 p. c.
 Average pressure of gas, 3.5 in.
 Gas stoves in use, 20.

ELECTRICAL DEPARTMENT.

Arcs, 300 used on an average of 90 days annually.
 Power used, Steam.
 Cost boiler coal per ton, \$4 to \$5.

Glens Falls Gas and Electric Light Co., Glens Falls.

Capital stock, \$250,000.
 Bonds \$250,000; due 1919; interest, 5 p. c.
 President, Richard S. Storrs.
 Secretary, Murray W. Dodge.
 Treasurer, Murray W. Dodge.
 Superintendent, E. A. Wakeman.
 Process manufacture, Coal.
 Pop. dist. supplied, 14,000. No. meters, 982.
 Miles of mains, approximate, 15.7.
 Price gas, 1903: Light, gross \$1.75; net \$1.50.
 Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 26,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2.6 in.
 Gas stoves in use, 360.
 Supplies Glens Falls.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Brush, 290 (2,000 c. p.) arcs capac.
 Incand. system, Stanley, 4,000 lamps capac.

The **Welsbach** STREET LIGHT is now extensively used on many of the principal streets of New York City. See advertisement, page xx.

No. public arcs, 211; hours lighted, 4,000.
 Price arc, public per year, \$78.
 Price arc and incand., Com'l, per kw., 5c.,
 discount, 10 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.85.

Goshen Gas and Fuel Co., Goshen.

Capital stock, 30,000.
 Bonds outstanding, 30,000; due 1932; int. 5 p. c.
 President, James Gamble.
 Secretary and treas., F. W. Seward, Jr.
 Superintendent, Frank Meils.
 Process manufacture, Water.
 Pop. dist. supplied, 3,500. No. meters, 210.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, gross and net \$2. Fuel
 gross and net \$1.50.
 Annual output, approx., 3,500,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 35.

Granville Electric and Gas Co., Granville.

Capital stock, \$150,000.
 President, F. T. Pember.
 Vice-president, B. G. Higby.
 Secretary and treas., E. R. Norton.
 Superintendent, Charles Schermerhorn.
 Process of manufacture, Water.
 Pop. dist. supplied, 2,000. No. meters, 125.
 Miles of mains, approximate, 4.
 Price gas, 1903; Light and fuel, gross, \$1.50;
 net \$1.35.
 Gas stoves in use, 75.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Incand. sys., Stanley ; 3,000 lamps capac.
 Power generators, 60 h. p.
 No. public incand., 18. Hours lighted, 1,980.
 Price incand. Public, per year, (25 c. p.) \$18.
 Price incand. Com'l, per month, 65c.; per
 kw. gross, 15c.
 Power used, Steam and Water.
 Cost boiler coal, per ton, \$4.65.

Albany and Hudson Railway and Power Co., Greenbush.

(See Rensselaer.)

Haverstraw Light and Fuel Gas Co., Haverstraw.

Capital stock, auth. \$500,000.
 Bonds, \$100,000; due 1924; interest, 6 p. c.
 Receiver and supt., Robert A. Widenmann.
 Process manufacture, Boeklen.
 Pop. dist. supplied, 12,000. No. meters, 435.
 Miles of mains, approximate, 12.
 Price gas, 1903, gross and net: Light, \$2.
 Fuel, \$1.50.
 Annual output, approx., 15,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Supplies Haverstraw.

Hempstead Gas Light Co., Hempstead.

(Controlled by Nassau County Gas Co., office,
 1406, Commonwealth Building, Philadelphia, Pa.)

Capital stock, \$25,000.
 Secretary and treas., C. F. Gittens.
 Purchasing agent, H. T. Duke.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 5,000. No. meters, 386.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light and Fuel, \$1.50.
 Annual output, approx., 7,000,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 20 p. c.
 Gas stoves in use, 200.
 Supplies Hempstead.

Nassau County Gas Co., Hempstead.

Capital stock, \$100,000.
 Treasurer, E. D. Hallowell.
 General manager, H. T. Duke.
 Superintendent, J. T. Seamon.
 Process manufacture, Lowe.
 Pop. dist. supplied, 40,000. No. meters, 375.
 Miles of mains, approximate, 17.
 Price gas, 1903: Light and Fuel, \$1.50.
 Public lamps, 70.
 Consumption per burner, per hour, 6 c. f.
 Hours lighted, 2,800.
 Annual output, approx., 15,000,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 80.
 Supplies: Garden City, Hempstead, Freeport,
 Baldwin, Rockville Centre, East Rock-
 away.

Herkimer County Light and Power Co., Herkimer.

(See Ilion.)

Fidelity Gas Co., Hoosick Falls.

Capital stock, \$75,000.
 Bonds \$75,000, due 1939; interest, 5 p. c.
 President, E. R. Case.
 Secretary, F. Chapman.
 Treasurer, F. Chapman.
 Superintendent, W. P. Haynes.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,631. No. meters, 380.
 Miles of mains, 6.5.
 Price gas, 1903: Light and Fuel, gross \$1.60,
 net \$1.50.
 Annual output, 9,000,000 c. f.
 Candle-power, 22.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 311.

Albany and Hudson Railway and Power Co., Hudson.

Purchasing agent, G. G. Blakeslee.
 General manager, G. G. Blakeslee.
 Superintendent gas dep't, W. P. Fardy.
 Electrician, R. B. Leavitt.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,970. No. meters, 760.
 Miles of mains, approximate, 5.25.
 Price gas, 1903: Light, gross \$2; net \$1.80.
 Fuel, 1.50; net \$1.35.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 16.

"The fact that the number of lamps in Worcester has been increased and the contract recommended by a unanimous vote of the City Council, is perhaps a sufficient answer to the inquiry if the service is satisfactory to the citizens of Worcester."

See advertisement, page xx.

HENRY A. KNIGHT, Superintendent of Street Lights.

Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 300.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc syst., Gen. Elec., 400 (1,200 c. p.) arcs capac.
 Incand. system, Gen. Elec., 6,000 lamps capac.
 No. public arcs, 111.
 Price arc, Public, per year, \$108.
 Price incand., Public, per kw-h. 15c., with discount.
 Price incand., Com'l, per kw-h., 15c.
 Power used, Water and Steam.
 Cost boiler fuel per ton, \$3.50.

Huntington Gas Co., Huntington.

Capital stock, \$60,000.
 Bonds outstanding, \$60,000; interest 5 p. c.
 Owners, Street, Wykes & Co.
 President, Edgar L. Street.
 Treasurer and secretary, Victor Cumberson.
 Purchasing agent, Edgar L. Street.
 Superintendent, A. H. Vail.
 Process manufacture, Lowe.
 Pop. dist. supplied, 2,800. No. meters, 465.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$2.20; net \$2.
 Fuel, gross \$1.60; net \$1.50.
 No. public lamps, 143. Price per year, \$16.50.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 2,000.
 Annual output, approx., 12,450,000 c. f.
 Candle-power, 21.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas sold for driving gas engines, 4,000,000 c. f., to the L. I. R. R. Co., for generating current for the Huntington Railroad Co. (trolley).
 Gas stoves in use, 270.
 Supplies Huntington Village and Huntington Harbor.

Herkimer County Light and Power Co., Ilion.

Capital stock, auth. \$400,000.
 Bonds, \$355,000; due 1930; interest, 5 p. c.
 President, Richard S. Storrs.
 Treasurer, Murray S. Dodge.
 General superintendent, H. P. Collins.
 Process manufacture, Coal.
 Pop. dist. supplied, 30,000. No. meters, 2,000.
 Miles of mains, approximate, 19.5.
 Price gas, 1903: Light, gross \$2; net \$1.90.
 Fuel, gross \$1.50; net 1.40.
 Annual output, approx., 27,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 850.
 (Supplies the towns of Ilion, Little Falls, Mohawk and Herkimer.)

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company. Plant at Dolgeville not included.)
 Arc system, T. H., 200 (2,000 c. p.) arcs capac.

Incand. system, West'se and Gen. Elec., 25,000 lamps capacity.
 Power generators, 1,300 kw. capacity.
 No. public arcs, 111; lighted 4,000 hours.
 No. public incand., 321, per year, 16 c. p., \$11
 Price arc, Public, per year, (2,000 c. p.) \$90.
 Price arc, Com'l, per month, (2,000 c. p.) \$6.
 Price incandescent, per kw., 5c. to 10c. Disc.
 5 p. c. to 50 p. c.
 Power used, Steam and Water.
 Cost boiler fuel per ton, \$3.15.
 Supplies only Little Falls with electricity.

Ithaca Gas Light Co., Ithaca.

Capital stock, \$75,000.
 President, Wm. T. Morris.
 Secretary, E. M. Treman.
 Treasurer, Wm. T. Morris.
 General manager, T. W. Summers.
 Superintendent, D. D. Norton.
 Superintendent of works, C. A. Schwarm.
 Process manufacture, Coal.
 Pop. dist. supplied, 16,000.
 Miles of mains, approximate, 16.
 Price gas, 1903: Light, gross \$1.60; net \$1.50.
 Fuel, gross \$1.30; net \$1.20.
 No. public Welsbachs, 35.
 Consumption per burner, per hour, 3 c. f.
 No. hours lighted per year, 4,000.
 Annual output, approx., 16,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 385.

Jamaica Gas Light Co., Jamaica.

Capital stock, \$200,000.
 President, E. R. Chapman.
 Vice-president, W. K. Rossiter.
 Secretary, A. F. Staniford.
 Treasurer, A. F. Staniford.
 Asst. Treasurer, J. H. Benedict.
 Purchasing agent, F. B. Jourdan.
 Manager, H. A. Lovell.
 Miles of mains, approximate, 30.
 Pop. dist. supplied, 8,000. No. meters, 1,600.
 Price gas, 1903: Light and Fuel, gross \$1.25.
 Purchases gas from Brooklyn Union Gas Co.
 Annual output, approx., 43,000,000 c. f.
 Candle-power, 27.
 Lowest pressure for gas stoves, 1.5 in.

Fulton County Gas and Electric Co., Johnstown.

Capital stock, \$1,500,000.
 Bonds, \$1,100,000; due 1936; interest, 5 p. c.
 President, A. M. Young.
 Secretary, Lewis Lillie.
 Treasurer, Lewis Lillie.
 Pur. agent, J. A. Pearson, Philadelphia, Pa.
 Agent, L. D. Spragle.
 Process manufacture, Lowe.
 Pop. dist. supplied, 30,000 No. meters, 5,231.
 Miles of mains, approximate, 41.
 Price gas, 1903: Light, gross \$1.70; net \$1.60.
 Fuel, gross and net \$1.50.
 No. public Welsbach lamps, 2.
 Annual output, approx., 62,914,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.8 in.

Beware of infringements and imitations. THE WELSBACH STREET LIGHTING COMPANY OF AMERICA is the sole proprietor of THE WELSBACH SYSTEM OF STREET LIGHTING. See advertisement, page xx.

Gas stoves in use, 3,628.
Supplies Johnstown and Gloversville.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, series A. C.
Incand. system, G. E., West'se, and Stanley.
Arc and incand. systems, 925 kw. capacity.
No. public arcs (1,200 c. p.) 242.
No. public incand., 21.
Hours lighted, arc and incand., public, 4,000.
Price arc, Public, per year, \$86.40.
Price, incand., Public, per year (65 c. p.), \$15.
Price arc and incandescent, Commercial,
per kw-h., 10c.
Power used, Steam and Water.
Cost boiler coal per ton, \$3.71.

Kingston Gas and Electric Co., Kingston.

Capital stock, \$700,000.
Bonds, \$517,000; due, 1952, int. 5 p. c.; \$32,500,
due 1907, 5 p. c.
President, Morris W. Stroud.
Secretary, R. L. Babcock.
Treasurer, Morris W. Stroud.
Pur. agt. and gen. supt., S. P. Curtis., Phila.
Superintendent, F. Tobey, Jr.
Process manufacture, Coal.
Pop. dist. supplied, 25,000. No. meters, 2,084.
Miles of mains, approximate, 35.
Price gas, 1903: Light and Fuel, gross \$1.50;
net \$1.40 to 90c.
No. public lamps, 6. Price per year, \$18.
Consumption per burner per hour, 4 c. f.
Price includes repairs, care, lighting and
extinguishing.
No. hours lamp is lighted per year, 3,960.
Annual output, approx., 47,870,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 912.
Supplies Kingston.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
gas company.)

Arc system, Gen. Elec., series alt., 150 (1,200 c.
p.) arcs capac.
Incand. system, G. E., 13,000 lamps capacity.
Power generators, 650 kw.
No. public arcs, 134; hours lighted, 3,960.
No. public incandescents, (25 c. p.) 473.
Price arc, Public, per year, \$85.
Price incand., Public, per year, \$18.
Price arc and incand., Com'l, per kw-h. 15c;
disc. 10 to 30 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$3.25.

Le Roy Gas and Electric Co., Le Roy.

Owner, D. C. H. Prentice.
Process manufacture, Coal.
Pop. dist. supplied, 3,000. No. meters, 135.
Miles of mains, approximate, 7.75.
Price gas 1903: Light, gross \$2; net \$1.60; Fuel,
gross \$1.50; net \$1.35.
Public Welsbach lamp, \$1; price per year, \$36.

Price includes repairs, care, lighting and
extinguishing.
Lighted 22 nights per month.
Annual output, approx., 1,735,111 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 33 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 60.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
gas company.)

Arc system, G. E., 120 (2,000 c. p.) arcs capac.
No. public arcs, 55; lighted 1,600 hours.
Price arc, Public, per year (2,000 c. p.), \$60.
Power used, Steam and Water.
Cost boiler fuel per ton, \$2.50.

Herkimer County Light and Power Co., Little Falls.

(See Ilion.)

Lockport Gas and Electric Light Co., Lockport.

Capital stock, \$150,000; annual div., 4 p. c.
Bonds, \$280,000; due 1920; interest, 5 p. c.
President, E. E. Witherby.
Secretary and treas., A. S. Cooke.
Purchasing agent, R. E. Slade.
Superintendent, R. E. Slade.
Process manufacture, Coal.
Pop. dist. supplied, 20,000. No. meters, 2,359.
Miles of mains, approximate, 23.
Price gas, 1903: Light, gross \$1.70; net \$1.50.
Fuel, gross \$1.50; net \$1.
No. public lamps, 79. Price per year, \$17.50.
Consumption per burner per hour, 5 c. f.
Price includes lighting and extinguishing.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 40,000,000 c. f.
Candle-power, 21.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 1,022.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc syst., Brush, 360 (2,000 c. p.) arcs capac.
Incand. syst., West'se, G. E., 8,000 lamps. capac.
Power generators, 400 kw.
No. public arcs, 261; hours lighted, 4,000.
Price arc, Public, per year, \$78.
Price arc, Commercial, per month, \$6.67.
Price incand., Com'l, per mo., \$1; per kw-h.,
10c. to 6c.
Power service, 2c. to 0.66c per kw-h., plus
service charge, 75c. per h. p. per mo.
Power used, Steam and Water (Niagara).
Cost boiler fuel per ton, \$4.75.

New Amsterdam Gas Co., Long Island City.

(See New York City.)

Lyons Gas Light Co., Lyons.

Capital stock, auth., \$30,000; issued, \$12,800.
President, Saxon B. Gavitt.
Secretary, Chas. T. Ennis.
Treasurer, Wm. S. Gavitt.
Purchasing agent, Saxon B. Gavitt.
Superintendent, George S. Musselman.
Process manufacture, Coal.

The **Welsbach** SYSTEM OF STREET LIGHTING is employed in the following cities: New York City, Philadelphia, Pa., Freehold, N. J., East Orange, N. J., New Haven, Conn., Brookline, Mass., Cambridge, Mass., New Rochelle, N. Y., Omaha, Neb., Springfield, O., Boston, Mass., New Bedford, Mass., Bridgeport, Conn., Dayton, O., Pensacola, Fla., St. Louis, Mo., Providence, R. I., San Francisco, Cal., Yonkers, N. Y., Milwaukee, Wis., Portland, Me., and various other cities. See advertisement, page xx.

Pop. dist. supplied 5,000. No. meters, 200.
Miles of mains, approximate, about 5.
Price gas, 1903: Light, gross \$2.
Annual output, approx., 2,500,000 c. f.
Candle-power, 18.
Lowest pressure for gas stoves, 2.5 in.

Malone Light and Power Co., Malone.

Capital stock, \$100,000.
President, F. D. Kilburn.
Sec'y and treas., J. F. Wright.
Purchasing agent, John M. Fisk.
General manager, John M. Fisk.
Process manufacture, Coal.
Population, 5,000. No. consumers, 225.
Miles of mains, approximate, 3.
Price gas, 1903: Light, gross and net \$2. Fuel,
\$1.50.
Annual output, approx., 3,500,000 c. f.
Candle-power, 16.
Proportion sold for fuel purposes, 10 p. c.
Gas stoves in use, 25.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Gen. Elec., 75 (2,000 c. p.) arcs capacity.

Incandescent system, 5,000 lamps capacity.
No. public arcs, 73; lighted all and every night.

No. public incandescents, 17.
Price arc, Public, per year, \$50.
Price arc, Commercial, per mo., \$4.50 to \$6.
Price incand., Public, per year, 16 c. p., \$10.
Power used, Water.
(Reserve steam plant).

Halfmoon Light, Heat and Power Co., Mechanicsville.

Capital stock, \$75,000.
President, J. C. Duncan.
Secretary, H. O. Bailey.
Treasurer, W. L. Howland.
Superintendent and pur. agent, F. S. Clute.
Process manufacture, Lowe.
Pop. dist. supplied, 6,000. No. meters, 200.
Miles of mains, approximate, 4.
Price gas, 1903: Light and Fuel, gross, \$2; net,
\$1.50.
No. public Welsbach lamps 30.
Consumption per burner per hour, 3 c. f.
Contract includes repairs, care, lighting
and extinguishing.
No hours lighted per year, all night.
Annual output, approx., 2,400,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 85 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 150.
Supplies Mechanicsville.

ELECTRICAL DEPARTMENT.

Incandescent system, 5,000 lamps capacity.
Power generators 250 kw. capacity.
Public incand., 250; lighted all night.
Price, incand., Public, (25 c. p.), \$7.50.
Price incand., Commercial, per kw-h, 11c.;
disc. 10 and 20 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$3.20.

Medina Gas Co., Medina.

Capital stock, \$40,000.
Bonds, \$40,000; due 1920; interest, 5 p. c.
President, A. L. Swett.
Secretary and treas., Chas. S. Swett.
Supt. and pur. agent, Chas. S. Swett.
Process manufacture, Coal.
Pop. dist. supplied, 5,000. No. meters, 335.
Miles of mains, approximate, 6.
Price gas, 1903: Light, net \$1.50. Fuel, \$1.25.
Annual output, approx, 7,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 2 in.

Orange County Gas and Electric Co., Middletown.

Capital stock, \$300,000.
Bonds outstanding, \$214,000; due 1907 and
1920; interest, 5 and 6 p. c.
President, Henry Floy.
Secretary, D. W. Corbett.
Treasurer and pur. agent, C. B. Buckley.
Manager, C. B. Buckley.
Superintendent, Wm. J. Max.
Process manufacture, Lowe.
Pop. dist. supplied, 14,000. No. meters, 1,010.
Miles of mains, approximate, 12.5
Price gas, 1903: Light, gross \$2 to \$1.60; disc. 5
p. c. Fuel, gross \$1.20; net \$1.10.
Annual output, approx., 19,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 1.5 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Brush, 125 (1,200 c. p.) arcs capac.
Incand. system, Stanley, 4,000 lamps capac.
Power generators, 175 kw.
Price arc and incand., Commercial, per kw.
net, 10c.
Power used, Steam and Water.
Cost boiler fuel per ton, \$2.80.

Westchester Lighting Co., Mount Vernon.

Capital stock, pref. \$2,500,000; com. \$10,000,000.
Bonds \$5,820,000; due 1950; int., 5 p. c.
President, W. W. Scrugham.
Secretary, B. W. Stilwell.
Treasurer, Lewis Lillie.
Auditor, W. B. Clements.
Pur. agt., J. A. Pearson, Philadelphia, Pa.
Engineer gas dept., R. M. Searle.
Engineer electrical dept., J. T. Cowling.
Process manufacture, Lowe and Coal.
Pop. dist. supplied, 153,750. No. meters, 24,394.
Miles of mains, approximate, 330.
Price gas, 1903: Light, gross \$1.70; net \$1.
Fuel, gross \$1.50; net \$1.
No. public lamps, 4,045, inc. 3,125 Welsbachs.
Price, open flame, \$18 to \$24.
Consumption per burner per hour, 4 c. f.
Price includes repairs, care, lighting and ex-
tinguishing.
Lighting hours per year, 4,000.
Annual output, approx., 785,745,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2 in.

THE INCREASED CANDLE POWER of the Improved **Welsbach** Street Light is all utilized because it is distributed horizontally and below the horizontal plane in every direction. See advertisement, page xx.

Gas stoves in use, 9,108.

Towns supplied: part of Borough of Bronx, Mt. Vernon, Yonkers, New Rochelle, Port Chester, White Plains, Tarrytown and adjoining towns and villages in Westchester Co.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system Gen'l. Elec. series, a. c., 200 (2,000 c. p.) and 535 (1,200 c. p.) arcs capac.

Incand. system, Gen'l. Elec., 60 cycle 2-phase alt., 82,840 lamps capacity.

Power generators, 2,850 kw capac.

No. pub. arcs 235 (2,000 c. p.), and 477 (1,200 c. p.)

No. public incand., 2,175.

Lighting hours per year, public arcs, 4,000; incand., 2,240 to 4,000.

Price arc, Public, per year, \$146 (2,000 c. p.); \$95 to \$115 (1,200 c. p.)

Price incand., Pub., 20 and 25 c. p., \$14 to \$27.50.

Price arc, Commercial (1,200 c. p.), \$108 to \$115.

Price incand. Com'l., 20 and 25 c. p., \$15 to \$30.

Price incand. and arc, per kw., 20c., with 10 to 40 p. c. disc.

Power used, Steam.

Newark Gas Light and Fuel Co., Newark.

Capital stock, \$50,000.

Bonds, \$28,500; due 1919; interest, 5 p. c.

President, William T. Morris.

Sec'y and treas., F. E. Lyford.

General manager, T. W. Summers.

Superintendent, Fred. W. Wenban.

Superintendent of works, C. A. Schwarm.

Process manufacture, Coal.

Pop. dist. supplied, 5,000. No. meters, 300.

Miles of mains, approximate, 5.

Price gas, 1903: Light, gross \$2; net \$1.80. Fuel, gross \$2; net \$1.50.

Annual output, approx., 4,000,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 10 p. c.

Lowest pressure for gas stoves, 2 in.

Newburg Light, Heat and Power Co., Newburg.

Capital stock, \$500,000.

Bonds, \$500,000; due 1921; int., 5 p. c.

President, Wm. R. Beal.

Secretary, T. R. Beal.

Treasurer, T. R. Beal.

General manager, Wm. R. Beal.

Process manufacture, Lowe.

Pop. dist. supplied, 23,000. No. meters, 3,000.

Miles of mains, approximate, 17.

Price gas, 1903: Light, gross \$1.60; net \$1.50. Fuel, gross \$1.10; net \$1.

Annual output, approx., 55,000,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 48 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 825.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, G. E., 310 (1,200 c. p.) arcs capac.

Incand. system, G. E., West'se and Stanley, 21,000 lamps capacity.

Power generators, 200 kw.

No. public arcs, 310; hours lighted, 4,000.

Price arc, Public, per year, \$82.80.

Price arc and incand., Com'l, per kw-h., 20c.; disc. for quantity to 60 p. c.

Power used, Steam.

Cost boiler coal per ton, \$3.25.

Westchester Lighting Co., New Rochelle.

(See Mt. Vernon.)

Newtown Gas Co., Newtown.

Capital stock, \$60,000.

Bonded debt, \$60,000.

President, E. R. Chapman.

Vice-president, W. K. Rossiter.

Secretary, A. F. Staniford.

Treasurer, A. F. Staniford.

Asst. treasurer, J. H. Benedict.

Purchasing agent, F. B. Jourdan.

Manager, Edward Merrick.

Miles of mains, approximate, 96.

No. meters, 6,000.

Price gas, 1903: Light and Fuel, gross \$1.25.

Purchases gas from Brooklyn Union Gas Co.

Annual output, approx., 175,000,000 c. f.

Candle-power, 27.

Lowest pressure for gas stoves, 1.5 in.

Kings County Gas and Illuminating Co., New Utrecht.

(See Brooklyn.)

Central Union Gas Co., New York City.

Capital stock, \$3,500,000.

Bonds, \$3,450,000, due 1947; interest, 5 p. c.

President, James Jourdan.

Vice-president, Chas. G. Franklyn.

Secretary and treas., W. C. Phelps.

Engineer, E. L. Spencer.

Superintendent, H. Burgi.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 140,000.

Miles of mains, approximate, 105.

Price gas, 1903: Light and Fuel, gross and net \$1.

No. public lamps, 2,000. Price per year, \$22.

Consumption per burner per hour, 3 c. f.

Price includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 4,000.

Annual output, approx., 950,000,000 c. f.

Candle-power, 21.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 1.6 in.

Supplies 23d Ward of Bronx Borough.

Consolidated Gas Co. of N. Y., New York City.

Capital stock, \$80,000,000; annual div., 8 p. c.

Bonds, \$1,450,000; due 1908; int., 5 p. c.

President, H. E. Gawtry.

Vice-presidents, Samuel Sloan, Walter R. Addicks and Lewis B. Gawtry.

Secretary, R. A. Carter.

Assistant secretary, Colin C. Simpson.

Treasurer, J. A. Bennett.

Assistant treasurer, Benj. Whiteley.

Chief engineer, Wm. H. Bradley.

Process manufacture, Coal and Lowe.

No. meters, 580,000.

Miles of mains, approximate, 1,763.

Extract from report of Department of Public Works, New York City:

"I was very much surprised during a recent visit to Paris to discover that the **Welsbach** had superseded electricity on all the grand avenues, especially the Champs Elysees."

See advertisement, page xx.

CHAS. H. T. COLLIS, Commissioner.

Price gas, 1903: Light and Fuel, gross \$1.
 No. public lamps, 24,334; incl. 5,000 Welsbachs.
 Price, open flame, per year, \$17.50.
 Consumption per burner per hour, 3 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 21,700,000,000 c. f.
 Candle-power, 23 to 28.
 Boroughs Manhattan and Bronx.

New Amsterdam Gas Co., New York City.

Cap'l stock, pref. \$10,000,000; com. \$13,000,000.
 Bonds outstanding, \$19,635,000; interest, 5 p. c.
 President, Moses Taylor.
 Vice-president and gen. man'r, G. W. Doane.
 Secretary, Malcolm M. Graham.
 Treasurer, Malcolm M. Graham.
 Purchasing agent, J. E. Roberts.
 Process manufacture, Lowe.
 No. meters, 1902, 80,000.
 Miles of mains, approximate, 300.
 Price gas, 1903: Light and Fuel, \$1.
 No. public lamps, 3,400. Price per year, \$12.
 Consumption per burner per hour, 3 c. f.
 Price includes care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 3,000,000,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 45,000.

New York Mutual Gas Light Co., New York City.

Capital stock, \$3,500,000.
 President, R. M. Gallaway.
 Secretary, W. C. Besson.
 Treasurer, W. C. Besson.
 Superintendent, W. A. Allen.
 Process manufacture, Wilkinson and Lowe.
 Miles of mains, approximate, 167.
 No. meters, 44,000.
 Price gas, 1903: Light and Fuel, gross and net \$1.
 Candle-power, 24.
 Gas stoves in use, 608.

Northern Union Gas Co., New York City.

Capital stock, \$1,500,000.
 Bonds, \$1,250,000; due 1927; int., 5 p. c.
 President, G. W. Doane.
 Vice-president, M. M. Graham.
 Sec'y, and treas., D. Hamilton.
 Process manufacture, Coal and Wilkinson.
 Pop. dist. supplied, 80,000. No. meters, 9,600.
 Price gas, 1903: Light and Fuel, gross and net \$1.
 No. public lamps, 3,300. Price per year, \$24.
 Consumption per burner per hour, 3 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Candle-power, 22.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Supplies 24th Ward, City of New York.

Standard Gas Light Co. of the City of N. Y., New York City.

Capital stock, pref. \$5,000,000; com. \$5,000,000.
 Bonds, \$1,362,000, due 1930; interest, 5 p. c.
 President, Frank Tilford.
 Vice-pres. and sec'y, W. Greeley Hoyt.
 Treasurer, Benj. Whiteley.
 Asst. Secretary, Geo. W. Parkhurst.
 Purchasing agent, W. Greeley Hoyt.
 Chief Engineer, Geo. E. Woods.
 Process manufacture, Lowe.
 Miles of mains, approximate, 200.
 Price gas, 1903: Light and Fuel, \$1.
 No. public lamps, 1,900. Price per year, \$13.04.
 Consumption per burner per hour, 3 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Candle-power, 24 to 26.
 Lowest pressure for gas stoves, 2 in.

Niagara Falls Gas and Electric Light Co., Niagara Falls.

Capital stock, \$150,000.
 Bonds, \$200,000; due 1933; interest, 5 p. c.
 President, Hon. F. A. Dudley.
 Treasurer, William T. Morris.
 General manager, T. W. Summers.
 Superintendent, Albert H. Merritt.
 Superintendent of works, C. A. Schwarm.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 25,000. No. meters, 900.
 Miles of mains, approximate, 23.
 Price gas, 1903: Light gross \$1.40; net \$1.20; under 2,000, gross \$1.90; net \$1.70.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.

Norwich Gas and Electric Co., Norwich.

(Controlled by the American Gas and Electric Co., Providence, R. I.)

Capital stock, \$100,000.
 Bonds, \$85,000; due 1931; interest, 5 p. c.
 President, S. N. Blake.
 Secretary, Lawrence Barnum.
 Treasurer, S. N. Blake.
 Purchasing dept., at Providence, R. I.
 Superintendent, L. L. Blake.
 Process manufacture, Lowe.
 Pop. dist. supplied, 7,200. No. meters, 485.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light, gross \$2; net \$1.80 to \$1.40. Fuel, \$1.40 to \$1.
 Annual output, approx., 9,250,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 175.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Wood and Brush, 120 (1,200 c. p.) arcs capacity.
 Incand. system, West's and National, 2,500 lamps capacity.
 No. public arcs (1,200 c. p.) 71.

THE WELSBACH STREET LIGHTING COMPANY OF AMERICA will furnish complete plants for the lighting of the streets of cities, the gas being furnished by the gas company. See advertisement, page xx.

No. public incand. (50 c. p.), 5. Lighted 5 months all night; balance moonlight.
 Price public lighting, per year, \$4,500.
 Price arc and incand., Com'l, per kw-h., gross 15c.; discount, 20 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.

Nyack Gas Light and Fuel Co., Nyack.

Capital stock, \$50,000.
 Bonds, \$58,000; due 1917 and 1922; int., 5 p. c.
 President, A. M. Voorhis.
 Secretary, Frederick Perry.
 Treasurer, A. M. Voorhis.
 Purchasing agent, A. M. Voorhis.
 Superintendent, A. M. Voorhis.
 Process manufacture, Lowe.
 Pop. dist. supplied, 7,000. No. meters, 650.
 Miles of mains, approximate, 13.
 Price gas, 1903: Light, gross, \$2.50; net \$1.50;
 Fuel gross \$2; net \$1.50.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 21.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 300.
 Towns supplied: South Nyack, Nyack, Upper Nyack.

Ogdensburg Gas Co., Ogdensburg.

President, Chester Snyder.
 Secretary, Geo. F. Coffin.
 Treasurer, Chester Snyder.
 Pur. agt. and supt. H. G. Davis.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 487.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$2.25; net \$2.
 Fuel, gross \$2; net \$1.50.
 Annual output, 11,092,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 41.

ELECTRICAL DEPARTMENT.

(No report.)

Oneonta Light and Power Co., Oneonta.

Capital stock, pref., \$75,000; com., \$100,000.
 Bonds, \$175,000; interest, 5 p. c.
 President, Edward E. Arnold.
 Secretary, John Russell Gladding.
 Treasurer, Jno. Russell Gladding.
 Purchasing agent, G. A. Lane.
 Superintendent, G. A. Lane.
 Process manufacture, Lowe.
 Pop. dist. supplied, 7,500. No. meters, 400.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, and Fuel, gross and net \$1.75
 Annual output, approx., 7,245,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 100.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as Gas Co.)
 Arc system, Wood, Amer., 120 (2,000 c. p.) arcs capacity.
 Incand. sys., Gen. Elec., 2,400 lamps capac.
 Power generators, 75 kw. capacity.
 No. public arcs, 80; hours lighted, 4,000.
 Price arc, Public, per year, \$95.
 Price arc, Com'l, per month, (1,200 c. p.) \$6; (2,000 c. p.) \$10.50.
 Price incand., Com'l, per month, 16 c. p., 75c.; per kw-h., 25c.
 Power used, Water.

Madison County Gas and Electric Co., Oneida.

Capital stock, pref., \$100,000; com., \$200,000.
 Bonds \$200,000; interest, 5 p. c.
 President, S. N. Blake.
 Sec'y and treas., F. V. Walters.
 Pur. agt., S. N. Blake, Providence, R. I.
 Superintendent, C. W. Koerner.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 500.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light, \$1.75; Fuel, \$1.50.
 Annual output, approx., 13,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 250.
 Supplies Oneida.
 (To extend mains to Canastota (pop. 4,000) in Spring of 1904.)

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc sys., Gen. Elec., 250 (1,200 c. p.) arcs cap.
 Incand. syst., Stanley, 10,000 lamps capacity.
 Power generators, 750 kw. capacity.
 No. public arcs, 110 (2,000 c. p.)
 No. hours lighted, per year, 2,000 and 4,000.
 Price arcs, Public, per year, all night, \$75; 1 o'clock, \$60.
 Price arcs, Com'l, per kw. 8c. to 10c.
 Price incand. Com'l, 14c. per kw.; disc. 2c. to 6c.
 Power, 5c. to 8c. per kw.
 Power used, Steam.
 Cost of boiler fuel per ton, \$3.06.
 Supplies Oneida and Canastota.

Ossining Gas Manufacturing Co., Ossining.

Capital stock, \$60,000.
 Bonds outstanding, \$60,000; interest, 4 p. c.
 President, Fred Munch.
 Secretary, C. E. Platt.
 Treasurer, Abe Shein.
 Superintendent, Jos. R. Swan.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 10,000. No. meters, 800.
 Price gas, 1903: Light and Fuel, net \$1.50.
 No. public lamps, 125. Price per year, \$21.50.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 16.
 Lowest pressure for gas stoves, 1.5 in.

THE **Welsbach** STREET LIGHT possesses absolute immunity from flickering or smoke in the lanterns; also from bugs and other outside obstructions to illumination. See advertisement, page xx.

Peoples Gas and Electric Co. of Oswego, Oswego.

Capital stock, \$450,000.
 Bonds, \$450,000; due 1930; interest, 5 p. c.
 President, C. F. Street.
 Secretary, Victor Cumberson.
 Treasurer, Hunter Wykes.
 Supt. and pur. agt., J. C. Knight.
 Process manufacture, Coal.
 Pop. dist. supplied, 23,000. No. meters 1,975.
 Miles of mains, approximate, 24.
 Price gas, 1903: Light, gross \$2; net \$1.70.
 Fuel, gross \$2; net \$1.25.
 Annual output, approx., 31,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.5 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc syst., Gen. Elec., 250 (2,000 c. p.) arcs capac.
 Incand. syst., Gen. Elec., 21,000 lamps capac.
 Power generators, 1,050 kw. capacity.
 No. public arcs, 246.
 No. public incand., 300.
 Price arc, Public, per year, \$71.
 Public arcs and incand. lighted 4,000 hours.
 Price arc, Com'l, per month, \$5.
 Price incand., Public, per year, \$13.65.
 Price arc and incand., Com'l, per kw., 10c.
 Power used, Water and Steam.
 Cost boiler coal per ton, \$4.

Owego Gas Light Co., Owego.

Capital stock, \$60,000.
 Bonds, \$50,000; due 1929; interest, 5 p. c.
 President, William T. Morris.
 Secretary, T. W. Summers.
 Treasurer, William T. Morris.
 General manager, T. W. Summers.
 Superintendent, Charles Dittmar.
 Superintendent of works, C. A. Schwarm.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 450.
 Miles of mains, approximate, 3.5.
 Price gas, 1903: Light, less than 2,000 ft., net \$1.60; over, \$1.50; over 5,000, \$1.40.
 Annual output, approx., 6,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 1.5 in.

Palmyra Gas Light Co., Palmyra.

Capital stock, \$20,000.
 President, Charles McLouth.
 Sec'y and treas., Charles McLouth.
 Pur. agt. and supt., Charles McLouth.
 Process manufacture, Coal.
 Pop. dist. supplied, 2,000. No. meters, 140.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light and Fuel, gross and net \$1.50.
 Annual output, approx., 2,000,000 c. f.
 Candle-power, 19.
 Gas stoves in use, 40.

Patchogue Gas Co., Patchogue.

(New company. Gas turned on March 1904.)
 President, F. C. Edwards.

Treasurer, F. C. Edwards.

Price gas, light and fuel, gross and net, \$1.50.

Peekskill Lighting and Railroad Co., Peekskill.

Capital stock, \$350,000.
 Bonds, \$575,000; due 1930; interest 5 p. c.
 President, B. B. Nostrand, Jr.
 Secretary, Alfred Ely.
 Treasurer, H. Hobart Porter, Jr.
 Purchasing agent, B. B. Nostrand, Jr.
 Process manufacture, Lowe.
 Pop. dist. supplied, 12,000. No. meters, 660.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light, gross \$1.60; net \$1.50.
 Fuel, gross \$1.60; net \$1.25.
 Annual output, approx., 18,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 125.
 Supplies Peekskill.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Incand. system, West'se, 6,700 lamps capac.
 Power generators, 300 kw. capacity.
 No. public incand., 352; lighted 2,700 hours.
 Price incand., Public, (16 c.p.) per year, \$15.10.
 Price incand., Com'l, per kw., 10c. to 20c.; disc. 5 p. c.
 Power used, Steam.
 Cost of boiler coal per ton, \$3.75.

Westchester Lighting Co., Pelham.

(See Mt. Vernon.)

Penn Yan Gas Light Co., Penn Yan.

Capital stock, \$24,750.
 Bonds, \$25,000; due 1919; interest, 6 p. c.
 President, William T. Morris.
 Secretary, L. E. Tracy.
 Treasurer, William T. Morris.
 General manager, T. W. Summers.
 Superintendent of works, C. A. Schwarm.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 400.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light and Fuel, gross \$1.80; net \$1.60 to \$1.40.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2 in.

Plattsburg Light, Heat and Power Co., Plattsburg.

Capital stock, pref. \$50,000; com. \$125,000.
 Bonds, \$125,000; due 1915; interest, 5 p. c.
 President, H. G. Runkle.
 Secretary, J. I. Mange.
 Treasurer, H. E. Barnard.
 Purchasing agent, Geo. M. Cole.
 Superintendent, Geo. M. Cole.
 Process manufacture, Lowe.
 Population, 10,000. No. consumers, 387.
 Price gas, 1903: Light, gross \$2.50; net \$2 and \$1.50. Fuel, \$1.50, \$1.25 and \$1.
 No. public lamps, 3. Price per year, \$22.50.
 Consumption per burner, per hour, 5 c. f.

THE IMPROVED **Welsbach** STREET LIGHTING FIXTURES furnish the perfection of street lighting outfits. See advertisement, page xx.

Price does not include repairs, care, lighting, and extinguishing.
 No. hours lamp is lighted per year, 2,000.
 Annual output, approx., 15,000,000 c. f.
 Candle-power, 22 to 24.
 Proportion sold for fuel purposes, 33 p.c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 250.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Brush, 80 (2,000 c. p.) arcs capac.
 Incand. system, West'se, G. E., 5,600 lamps capacity.
 Power generators, 275 kw. capacity.
 No. public arcs, 60; hours lighted, 2,920 and 4,000.
 Price arc, Public, per year, \$75; one circuit all night, \$90.
 Price arc, Commercial, per year, 2,920 hours, \$75.
 Price incand., Com'l, per kw., gross 20c.; net 6c. to 15c.
 Power used, Steam, Water and Water.
 Cost boiler fuel per ton, \$4.

Westchester Lighting Co., Port Chester

(See Mt. Vernon.)

Port Henry Gas Co., Port Henry.

Capital stock, \$6,800.
 Secretary, H. B. Willard.
 Treasurer, H. B. Willard.
 Purchasing agent, H. B. Willard.
 Superintendent, H. B. Willard.
 Process manufacture, Sutherland.
 Pop. dist. supplied, 2,000. No. meters, 75.
 Miles of mains, approximate, 2.
 Price gas, 1903: Light, net \$2.25.
 No. public lamps, 32. Price per year, \$20.50.
 Consumption per burner per hour, 3 c. f.
 Price does not include repairs, care, lighting and extinguishing.
 Lighted to 12 P. M. 20 nights per month.
 Annual output, approx., 1,000,000 c. f.
 Candle-power, 22.
 Lowest pressure for gas stoves 1.5 in.
 Supplies Port Henry.

Port Jervis Electric Light, Power and Gas R. R. Co., Port Jervis.

Capital stock, \$450,000.
 Bonds, 275,000; due 1931; interest, 5 p. c.
 President, R. H. Beach.
 Secretary, C. R. Horn.
 Treasurer, C. R. Horn.
 Pur. agent and supt., R. S. Weaver.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 768.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light, gross \$2.10; net \$2. Fuel, gross \$1.60; net \$1.50.
 No. public Welsbach lamps, 2.
 Consumption per burner per hour, 3.5 c. f.
 Contract does not include repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 22.

Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 200.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, G. E. 50 (2,000 c. p.) 100 (1,200 c. p.) arcs capacity.
 Incandescent system, G. E. three-phase 4,000 lamps capacity.
 Power generators, 400 kw. capacity.
 No. public arcs, 128; hours lighted, 4,000.
 No. public incandescents, 6.
 Price arc, Public, per year, \$74.77.
 Price incand., Public, (16 c. p.), \$18.
 Price arc, Com'l, (2,000 c. p.) \$6.25.
 Price incand., Commercial, per kw-h. 14c.; disc. 10 p. c. to 30 p. c.
 Power used, Water.

Poughkeepsie Light, Heat & Power Co., Poughkeepsie.

Capital stock, \$500,000; annual div., 2 p. c.
 Bonds, \$500,000; due 1907, 1914, 1921; int., 5 p.c.
 President, F. R. Bain.
 Secretary, T. R. Beal.
 Treasurer, Wm. Schikle.
 Gen. mgr. and pur. agt., T. R. Beal.
 Superintendent, F. W. Humphrey.
 Process manufacture, Lowe.
 Pop. dist. suppl'd, 24,000. No. meters, 3,300.
 Miles of mains, approximate, 20.
 Price gas, 1903: Light and Fuel, gross \$1.35; net \$130 to 1.
 Annual output, approx., 70,000,000 c.f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 36 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,200.
 Supplies Poughkeepsie.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 257 (2,000 c. p.) arcs capac., 50 (1,200 c. p.)
 Incand. system, G. E., 14,000 lamps capac.
 No. public arcs, (2,000 c. p.) 257; (1,200 c. p.) 50; hours lighted, 4,000.
 Price arc, Public, per year, \$89.
 Price arc and incand., Com'l, per kw-h. 15c.; disc. 5 p. c. to 35 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.20.

Albany & Hudson Railroad Co., Rensselaer.

Capital stock, \$2,000,000.
 Bonds outstanding, \$1,500,000; interest. 4 p. c.
 President, Clinton L. Rossiter.
 Secretary, L. B. Grant.
 Treasurer, H. G. Runkle.
 General manager, Geo. B. Blakeslee.
 Process of manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 185.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$2; net \$1.80. Fuel, gross, \$2; net, \$1.50.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 12 p. c.

The **Welsbach** STREET LIGHT is a pure white light, unaffected by change of temperature, winds, or other natural disturbances. See advertisement, page XX.

Lowest pressure for gas stoves, 1 in.
Gas stoves in use, 65.
Supplies Rensselaer.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Incand. system, Gen. Elec., 2,000 lamps capac.
Power generators, 250 kw. capacity.
Pub. incand., 390; hrs. lighted per year, 4,000.
Price incand., Public, per year, 16 c. p., \$20.
Price incand., Com'l, per kw., 15c.; 5 p.c. disc.
Power used, Steam and Water.
Cost boiler fuel per ton, \$4.25.

Rhinebeck Gas Co., Rhinebeck.

(Operations suspended. No demand for gas.)
Capital stock, \$25,000
President, M. V. hyver.
Purchasing agent, R. Raymond Rikert.
Miles of mains, approximate, 3.

Richmond Hill and Queens County Gas Light Co., Richmond Hill.

Capital stock, \$250,000.
President, E. R. Chapman.
Vice-president, W. K. Rossiter.
Secretary, A. F. Staniford.
Treasurer, A. F. Staniford.
Assistant treasurer, J. H. Benedict.
Purchasing agent, F. B. Jourdan.
Manager, H. A. Lovell.
Purchases gas from Brooklyn Union Gas Co.
No. meters, 1,300.
Miles of mains, approximate, 20.
Price gas, 1903: Light and Fuel, gross \$1.25.
Annual output, 43,000,000 c. f.
Candle-power, 27.
Lowest pressure for gas stoves, 1.5 in.

Rochester Gas and Electric Co., Rochester.

Capital stock, pref. \$2,360,000; annual div.,
6 p. c.; com. \$2,150,000.
Bonds, \$2,000,000, due 1912, interest 5 p. c.;
\$1,000,000, due 1920, interest, 4.5 p. c.;
\$700,000 due 1921; interest 4.5 p. c.
\$250,000 due 1915; interest 5 p. c.
\$1,500,000 due 1942; interest 4.5 p. c.
President, Geo. W. Archer.
Secretary, J. R. Judson.
Treasurer, W. L. Cole.
Pur. agt. gas dept., W. L. Cole.
Pur. agt. elect. dept., Geo. A. Redman.
Supt. gas dept., W. L. Cole.
Supt. elect., dept., Geo. A. Redman.
Process manufacture, Coal & Lowe.
Pop. dist. supplied, 175,000. No. meters, 29,000.
Miles of mains, approximate, 215.
Price gas, 1903: Light and Fuel, gross \$1.20;
net \$1 to 75c.
No. public lamps, 143. Price per year, \$29.20.
Consumption per burner per hour, 6 c. f.
Price includes repairs, care, lighting and
extinguishing.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 550,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 44 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 12,000.
Supplies Rochester.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
gas company.)
Arc system, Brush, T. H., W. Elec., G. E., 4,300
(2,000 c. p.); 600 (1,200 c. p.) arcs capacity.
Incand. system, G. E., 160,000 lamps capac.
No. public arcs, 2,881; hours lighted, 4,000.
Price arc, Public, per year, (2,000 c. p.) \$78.50;
(1,200 c. p.) \$66.66.
Price arc and incand., Com'l, per kw-h.,
10c.; disc. 10c.
Power used, Water and Steam.
Cost boiler fuel per ton, \$3.

Queens Borough Gas and Electric Co., Rockaway.

(See Far Rockaway.)

Rome Gas, Electric Light and Power Co., Rome.

Capital stock, \$400,000.
President, James T. Lynn.
Secretary, M. B. Daly.
Treasurer, M. B. Daly.
Purchasing agent, James T. Lynn Co.
Superintendent, R. A. Field.
Process manufacture, Coal.
Pop. dist. supplied, 19,000. No. meters, 1,582.
Miles of mains, approximate, 15.
Price gas, 1903: Light, gross \$1.75; net \$1.50.
Fuel, gross \$1.40; net \$1.20.
Annual output, approx., 31,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 502.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, T. H., 250 (2,000 c. p.) arcs capac.
Incand. system, Gen. Elec., 7,300 lamps capac.
Power generators, 100 kw. capacity.
No. public arcs, 240; hours lighted, 4,000.
Price arc, Public, per year, \$113.15.
Price per kw., gross 15c.; disc. 10 to 40 p. c.;
power circuit, 8c.
Power used, Steam.
Cost boiler fuel per ton, \$3.25.

Sag Harbor Lighting Co., Sag Harbor.

Capital stock, \$20,000; annual div., 6 p. c.
Bonds, \$20,000; due, 1923; interest 5 p. c.
President, F. H. Palmer.
Secretary, Geo. E. Fahy.
Treasurer, Henry F. Cook.
Pur. agent and supt., E. A. Pinkney.
Process manufacture, Lowe.
Pop. dist. supplied, 4,000. No. meters, 575.
Miles of mains, approximate, 10.
Price gas, 1903, gross and net: Light and
Fuel, \$1.75.
Annual output, approx., 12,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 1 in.
Gas stoves in use, 200.

United Gas, Electric Light and Fuel Co., Sandy Hill.

Capital stock, \$200,000.
Bonds, \$150,000; due 1930; interest, 5 p. c.
President, Wm. C. Hendrickson.

THE Welsbach STREET LIGHTING COMPANY OF AMERICA can
furnish lanterns and fixtures for every possible contingency that may occur.
See advertisement, page xx.

Secretary, J. P. Monty.
 Treasurer, John L. Wentz.
 Gen. mgr. and pur. agent, Wm. L. Clarke.
 Process manufacture, Coal.
 Pop. dist. supplied, 13,000. No. meters, 401.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light and Fuel, gross and net, \$1.25.
 No. public lamps, 11. Price per year, \$20.
 Consumption per burner, per hour, 6 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approximate, 6,802,200 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 75 c. p.
 Lowest pressure for gas stoves, 2.5.
 Gas stoves in use, 277.
 Towns supplied: Sandy Hill, Fort Edward and South Glens Falls.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Brush and Ft. Wayne, 275 (1,200 c. p.) arcs capac.
 Incand. system, Stanley, 4,000 lamps capac.
 No. public arcs, 160; lighted 4,000 hours.
 Price arc, Public, per year, \$80.
 Incand., Com'l, per kw-h., 10c.; residences, \$12; disc. 10 p. c.
 Power used at Sandy Hill, Water; at Fort Edward, Steam.
 Cost boiler coal per ton, \$3.75.

Saratoga Gas, Electric Light and Power Co., Saratoga Springs.

Capital stock, pref. \$180,000; com. \$30,400.
 Bonds \$124,000; due 1917; interest, 5 p. c.
 President, Edgar Truman Brackett.
 Sec'y and treas., Elmer J. West.
 Purchasing agent, Patrick F. Roohan.
 Superintendent, Patrick F. Roohan.
 Process manufacture, Lowe.
 Pop. dist. supplied, 12,000. No. meters, 900.
 Miles of mains, approximate, 21.
 Price gas, 1903: Light, gross \$2.25; net \$2. Fuel, net \$1.50.
 No. public Welsbach lamps, 207.
 Consumption per burner per hour, 3 c. f.
 Contract includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 28.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 400.

ELECTRICAL DEPARTMENT.

Arc system, T. H., Amer., 250 (2,000 c. p.) arcs capacity.
 Incand. system, West'se, Slattery, 2,250 lamps capacity.
 No. public arcs, 98; hours lighted, 4,000.
 No. public incandescents, 107.
 Price arc, Public, per year, \$98.
 Price incand., Public, per year, 20 c. p., \$23.
 Price incand., Com'l, per mo., 16 c. p., 85c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.

Saugerties Gas Light Co., Saugerties.

Capital stock, \$32,000.
 President, W. R. Kenan, Jr., Lockport.
 Secretary, T. T. Walsh, Catskill.
 Treas. and supt., R. B. Goodman.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 290.
 Miles of mains, approximate, 4.
 Price gas, 1903: Light, gross \$2; net \$1.80; Fuel gross \$2; net, \$1.60.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 12 p. c.
 Lowest pressure for gas stoves, 1.4 in.
 Gas stoves in use, 102.
 Supplies Saugerties.

Mohawk Gas Co., Schenectady.

Capital stock, pref., 154,000; Com., \$290,000.
 Bonds taken up.
 President, C. F. Peck.
 Secretary, E. C. Angle.
 Treasurer, John Magilton.
 Purchasing agent, J. H. Aitken.
 Superintendent, G. F. Macmun.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 46,000. No. meters, 3,500.
 Miles of mains, approximate, 32.
 Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.30.
 Annual sales, approximate, 90,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 2,200.
 Supplies Schenectady.

Seneca Falls and Waterloo Gas Light Co., Seneca Falls.

Capital stock, \$80,000.
 Bonds, \$75,000; due 1919; interest, 5 p. c.
 President, E. H. Palmer.
 Secretary, L. G. Haskins.
 Treasurer, Chas. J. Root.
 Purchasing agent, E. H. Palmer.
 Superintendent, F. O. Cheney.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 777.
 Miles of mains, approximate, 13.
 Price gas, 1903: Light and Fuel, gross \$1.75; net \$1.60 to \$1.40.
 Annual output, approx., 13,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 2 in.

New York and Richmond Gas Co., Stapleton, Staten Island.

Capital stock, \$1,000,000.
 Bonds, \$1,000,000; due 1921 interest, 5 p. c.
 President, Robt. L. Forrest.
 Secretary, T. O. Horton.
 Treasurer, C. B. Van Nostrand.
 Local mgr. and pur. agt., T. O. Horton.
 Engineer, F. H. Shelton.
 Process manufacture, Lowe.
 Pop. dist. supplied, 50,000. No. meters, 5,000.
 Miles of mains, approximate, 65.
 Price gas, 1903: Light gross, \$1.35; net \$1.25.
 Annual output, approx., 156,000,000 c. f.

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA furnishes a special Park Lamp, which is particularly suitable for the lighting of public parks and boulevards. See advertisement, page XX.

Candle-power, 22.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 2.4 in.
Gas stoves in use, 2,150; heaters, 1,000.
Supplies Borough of Richmond.

Suffern Gas Co., Suffern.

Capital stock, 100,000.
Bonds, \$100,000; due, 1940; interest, 5 p. c.
President, Edward Oaks.
Secretary, D. W. LaFebra.
Treasurer, S. H. Pennington.
Local superintendent, Albert H. Kelsall.
Process manufacture, Lowe.
Pop. dist. supplied, 3,000. No. meters, 240.
Miles of mains, approximate, 5.5.
Price gas, 1903: Gross \$1.50; net \$1.40.
Annual output, approx., 3,600,000 c. f.
Candle-power, 23.
Proportion sold for fuel purposes, 33 p. c.
Lowest pressure for gas stoves, 2.2 in.
Gas stoves in use, 65.
Supplies Suffern.

Syracuse Gas Co., Syracuse.

Cap. stock, auth., \$2,500,000; issued, \$1,975,000.
Bonds, \$2,107,000; due 1946; interest, 5 p. c.
President, George A. Wood.
Secretary, Jerome L. Cheney.
Treasurer, John J. Cummins.
Gen. mgr. and pur. agt., John J. Cummins.
Superintendent, John H. Tuffs.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 110,000. No. meters, 16,750.
Miles of mains, approximate, 100.
Price gas, 1903: Light gross, \$1.50, net, \$1.30;
Fuel, gross, \$1.50, net, \$1.
Annual sale, approximate, 311,489,900 c. f.
Candle-power, 19.5.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, about 6,000.

Westchester Lighting Co., Tarrytown.

(See Mount Vernon.)

Niagara Light, Heat and Power Co., Tonawanda.

Capital stock, \$250,000.
Bonds, \$185,000; interest 5 p. c.
President, L. T. Palmer.
Secretary, David F. Tilley.
Treasurer, Geo. A. Lewis.
Pur. agent and general mgr., L. T. Palmer.
Trustees, Wm. A. Mason and Geo. A. Lewis.
Process manufacture, Coal. (Also Natural.)
Pop. dist. supplied, 20,000. No. meters, 1,900.
Miles of mains, approx., 23. (Natural 22.)
Price gas, 1903: Light gross, \$1.70; net, \$1.50;
Fuel gross, \$1.20; net, \$1. (Natural, gross 50c.; net, 40c.)
No. public lamps, 131; includ. 125 Welsbachs.
Consumption per burner per hour, 5 c. f.
Contract includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 3,600.
Annual output, approx., 28,000,000 c. f.
(Natural, 30,000,000 c. f.)
Proportion sold for fuel purposes, 50 p. c.
Candle-power, 18.
Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 1,000.

Cities supplied: Tonawanda, North Tonawanda and Kenmore.

Troy Gas Co., Troy.

Capital stock, \$1,000,000.
Bonds outstanding, \$900,000; due 1939 and 1923; interest, 5 and 6 p. c.
President, Edward Murphy, Jr.
Secretary, C. E. Davenport.
Treasurer, C. E. Davenport.
Supt. and pur. agt. gas dept., H. C. Shields.
Supt. and pur. agt. elect. dept., John F. Cahill.
Process manufacture, Shields.
Pop. dist. supplied, 85,000. No. meters, 9,000.
Miles of mains, approximate, 60 to 65.
Price gas, 1903, gross: Light, \$1.30; Fuel, \$1.
No. public lamps, 210. Price per night, 7.5c.
Consumption per burner per hour, 4 c. f.
Price includes repairs, care, lighting and extinguishing.
Lighting hours per lamp per year, 3,760.
Annual output, approx., 250,000,000 c. f.
Candle-power, 25.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 1 in.
Gas stoves in use, 2,000 and over.
Cities supplied: Troy and Waterford.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, T. H., Brush, 800 (2,000 c. p.) and 100 (1,200 c. p.) arcs capacity.
Incand. system, West's, 13,000 lamps capac.
No. public arcs, 460; lighted all and every night.
Price arc, Public, per year, \$119.53.
Price arc, Commercial, per month, to 8 P. M., \$8; to 10 P. M., \$10; to 12 P. M., \$12.
Price incand., Commercial, per kw-h., 12c.;
Power used, Steam.
Cost boiler fuel per ton, \$2.88.

Utica Gas and Electric Co., Utica.

Capital stock, \$2,000,000.
Bonds outstanding, \$2,000,000; interest 5 and 6 p. c.
President, Anthony N. Brady.
Vice-President, Wm. E. Lewis.
Secretary, W. J. Cahill.
Treasurer, Geo. H. Stack.
Purchasing agent, Geo. H. Stack.
Gen'l manager gas dep't, Wm. J. Cahill.
Gen'l manager elec. dep't, M. Jesse Brayton.
Process manf., Lowe, Granger-Collins.
Pop. dist. supplied, 60,000. No. meters, 8,100.
Miles of mains, approximate, 69.5.
Price gas, 1903: Light, gross \$1.60; net \$1.50.
Fuel, \$1.35 to \$1.25.
Annual output, approx., 144,000,000 c. f.
Candle-power, 24.
Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 1.6 in.
Gas stoves in use, 4,500.
Supplies Utica.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc system, Brush, Gen'l Elec., 1,000 (2,000 c. p.) arcs capac.

THE WELSBACH STREET LIGHT possesses great economy over any other method of street illumination. See advertisement, page xx.

Incand. sys., Gen'l Elec., West'se, Stanley,
100,000 lamps capac.
Power generators, 8,000 kw. capac.
No. public arcs, 774; hours lighted, 3,650.
Price arc, Public, per year, \$109.50.
Price arc and incand. Com'l, per kw., gross
15c.; disc. 5 p. c.
Power used, Steam and Water.
Cost boiler coal per ton, \$3.50.

Franklindale Co., Wappingers Falls.

(Small private plant supplying print mills.)

Warsaw Gas and Electric Co., Warsaw.

Capital stock, \$50,000.
President, George C. Otis.
Secretary, W. J. Humphrey.
Treasurer, W. J. Humphrey.
Purchasing agent, W. E. Hemenway.
Superintendent, W. E. Hemenway.
Process manufacture, McKay.
Pop. dist. supplied, 1,000. No. meters, 150.
Miles of mains, approximate, 3.
Price gas, 1913: Light, gross \$2.30; net \$2.20.
Fuel, gross \$1.50; net \$1.40.
Annual output, approx., 1,500,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 2.8 in.
Gas stoves in use, 15.
Supplies Warsaw.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Ft. Wayne, 60 (2,000 c. p.) arcs capacity.
Incand. system, Ft. Wayne, 2,000 lamps capacity.
No. public arcs, 26; lighted to 1 A. M., moon scale.
No. public incand., 23; lighted all night.
Price arc, Public, per year, \$75.
Price incand., Public, per year, 16 c. p., \$14.20.
Price arc, Commercial, per month, \$6.
Price incand., Com'l, per kw-h., 17c. to 8c., disc., 5 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$2.30.

Watertown Gas Light Co., Watertown.

Capital stock, pref. \$100,000.
Bonds outstanding, \$50,000; interest, 6 p. c.
Secretary, S. L. George.
Treasurer, S. L. George.
Pur. agent and supt., Chas. Francis Coffin.
Process manf., Coal and Lowe.
Pop. dist. supplied, 27,000. No. meters, 2,000.
Miles of mains, approximate, 16.5.
Price gas, 1903, Light, gross, \$1.60; net \$1.50.
Fuel, gross, 1.60; net \$1.50.
No. public Welsbach lamps, 26.
Consumption per burner per hour, 3 c. f.
Contract includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 36,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 1.6 in.
Gas stoves in use, about 900.

Waterville Gas and Electric Co., Waterville.

Capital stock, \$20,000.
Bonds, \$5,000; due 1905; interest, 6 p. c.
President, H. B. Sweet.
Treasurer, M. W. Terry.
Superintendent, F. Billingham.
Process manufacture, Lowe.
Population, 1,800. No. meters, 150.
Miles of mains, approximate, 5.
Price gas, 1903: Light, \$2; Fuel, \$1.50.
Annual output, approx., 2,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 50.

Watkins Consolidated Gas and Electric Co., Watkins.

(Consolidation of Watkins Gas Co. and Watkins Electric Light and Power Co.)
Purchased by United Light and Traction Co.
Superintendent, Alfred Sweeney.
Process manufacture, Coal.
Pop. dist. supplied, 4,000. No. meters, 300.
Price gas, 1902: Light and Fuel, net \$1.50.
Annual output, approx., 6,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.
(Expect to pipe natural gas to Watkins in spring of 1904.)

Gas Light Co. of Waverly, Waverly.

(Also owns and operates Athens and Sayre Gas Co., Athens, Pa.)

Capital stock, \$150,000.
Bonds, \$150,000; due 1929; interest, 5 p. c.
President, F. T. Page.
Secretary, S. L. Gillette.
Treasurer, Frank A. Gillette.
Supt. and pur. agt., F. A. Gillette.
Process manufacture, Lowe.
Pop. dist. supplied, 16,500. No. meters, 443.
Miles of mains, approximate, 10.
Price gas, 1903, gross and net: Light, \$1.50, Fuel, \$1.25.
Annual output, approx., 10,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 2.8 in.
Gas stoves in use, 300.
Cities supplied: Athens, Sayre and Waverly.

West Point Gas Works, West Point.

(Operated for and by the U. S. Military Academy. Have both gas and electric plants.)
Officer in charge, J. M. Carson, Jr., Major and Quartermaster.

Bronx Gas and Electric Co., Westchester.

Capital stock (auth. \$500,000) \$270,500; annual div., 16 p. c.
Bonds (auth. \$500,000) \$325,000; due 1951; interest, 5 p. c.
President, E. H. Rosenquest.
General manager, E. H. Rosenquest.
Superintendent, J. M. Butler, Jr.

"The metropolitan appearance of the lamp itself, together with the clear, white, steady, powerful light, put the **Welsbach** clear in the lead of anything on the market to-day for the purpose of street lighting."

(Signed) W. W. BINGHAM, President, City Council, Omaha.

See advertisement, page xx.

Miles of mains approximate, 20.
 Price gas 1903: Gross \$1.15.
 Annual output approx., 35,249,700 c. f.
 Supplies that portion of Borough of Bronx
 lying east of Bronx River.

ELECTRICAL DEPARTMENT.

(No report.)
 Pole lines, approximate, 50 miles.

Westfield Gas Works, Westfield.

(Small private plant.)
 Owners: L. W. Chapman and A. B. Ottaway.
 Process manf., Janeway and Logan (oil).
 Pop. dist. supplied, 3,500. No. of meters, 67.
 Price gas, 1903: Light and Fuel, gross and
 net, \$1.50.
 Annual output, approx., 1,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes; 5 p. c.

Westchester Lighting Co. White Plains.

(See Mount Vernon.)

Woodhaven Gas Light Co., Woodhaven.

(Purchases gas from Brooklyn Union Gas Co.)
 Capital stock, \$20,000.
 President, E. R. Chapman.
 Vice-president, W. K. Rossiter.
 Sec'y and treas., A. F. Staniford.
 Assistant treasurer, J. H. Benedict.
 Purchasing agent, F. B. Jourdan.
 Manager, H. A. Lovell.
 No. meters, 1,800.
 Miles of mains approximate, 26.
 Price gas, 1903: Light and Fuel, gross \$1.25.
 Annual output, 34,000,000 c. f.
 Candle-power, 27.
 Lowest pressure for gas stoves, 1.5 in.

Westchester Lighting Co., Yonkers.

(See Mt. Vernon.)

NORTH CAROLINA.

Asheville Lighting Co., Asheville.

(Owned by Asheville Street Railway Co.)
 General manager, H. W. Plummer.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Asheville Electric Co.)
 (No report.)

Charlotte Electric Railway, Light and Power Co., Charlotte.

(Owned by Charlotte Consolidated Construction Co.)
 President, E. D. Latta.
 Secretary, J. L. Chambers.
 Treasurer, E. D. Latta.
 Pur. agt. and supt., M. N. Latta.
 Process manufacture, Lowe.
 Population, 23,000. No. meters, 2,400.
 Miles of mains, approximate, 15.
 Price gas, 1903: Gross and net: Light, \$1.50;
 Fuel, \$1.25.
 Annual output, approx., 38,000,000 c. f.
 Candle-power, 22.4.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 1.6 in.
 Gas stoves in use, 400.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system Brush, 300 (1,200 c. p.) arcs capac.
 Incand. sys., G. E., 3,000 lamps capac.
 Power generators, 610 kw. capac.
 No. public arcs, 160; hours lighted, 4,000.
 Price arc, Public, per year, \$90.
 Price arc and incand. Com'l per kw., gross
 12 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$3.65.

Durham Light and Power Co., Durham.

Capital stock, \$100,000.
 President, H. T. Heller.

Secretary, C. E. Lent.
 Treasurer, I. J. Echelman.
 Purchasing agent, A. R. Law.
 Gen'l manager and supt., A. R. Law.
 Process manufacture, Coal.
 Population 1900, 6,000. No. meters, 245.
 Miles of mains, approximate, 6.1.
 Price gas, 1903: Light, gross and net \$1.50;
 Fuel, net \$1.20.
 Annual output approximate, 6,687,700 c. f.
 Candle-power, 17.5.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 31.
 Sup. business section of Durham mainly.

Fayetteville Gas and Electric Light Co., Fayetteville.

Capital stock, \$33,000; annual div., 5 p. c.
 Bonds outstanding, \$10,000.
 President, C. W. Broadfoot.
 Secretary and treas., H. C. Bash.
 Pur. agent and supt., H. C. Bash.
 Population district supplied, 8,000.
 Miles of mains, approximate, 9.
 Price gas 1903: Light \$2; fuel \$1.
 Candle-power, 18.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 20.

Greensboro Electric Co., Greensboro.

Capital stock, auth., \$250,000.
 Manager, Z. V. Taylor.
 President, John Karr.
 Secretary, Z. V. Taylor.
 Treasurer, R. D. Barr.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000; town, 10,035. No.
 meters in service, 425.
 Price gas, 1903: Light, gross \$2.50; net \$2.
 Fuel, net \$1.
 Annual output, approx., 9,608,700 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 12 p. c.
 Lowest pressure for gas stoves, 1.5 in.

Welsbach System of Street Lighting

ELECTRICAL DEPARTMENT.

(No report.)

New Bern Gas Light Co., New Bern.

Value of plant, \$50,000.
 Owned and operated by Sam'l W. Smallwood.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 300.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, net \$2 and \$2.50; Fuel,
 net \$2 and \$1.50.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 20.
 Lowest pressure for gas stoves, 1.8 in.

Standard Gas and Electric Co., Raleigh.

Capital stock, \$100,000.
 President, S. E. Linton.
 Sec'y and treas., H. W. Jackson.
 Pur. agt. and supt., S. E. Linton.
 Electrician, C. F. Farmer.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 8,500. No. meters, 825.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$2; Disc., 5, 10,
 15, 20 and 25 p. c. Fuel, \$1.50.
 Annual output, approx., 18,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 400.

ELECTRICAL DEPARTMENT.

Operated under same name as gas company.)
 Arc system, T. H., 122 (1,200 c. p.) arcs capac.
 Incand. system, West'se, 1,000 lamps capac.
 Price arc, Commercial, per month, \$10.
 Price incand., Commercial, per kw-h., 20c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.60.

Salisbury Gas and Electric Light Co., Salisbury.

Capital stock, \$50,000.
 Bonds, \$50,000; due 1920; interest, 5 p. c.
 President, Edward I. Frost.
 Sec'y and treas., Edward I. Frost.
 Purchasing agent, Edward I. Frost.
 Process manufacture, Lowe.
 Pop. dist. supplied, 5,000. No. meters, 200.
 Miles of mains, approximate, 3.
 Price gas, 1903: Light, gross \$2.20; net \$1.98.
 Fuel, gross \$1.50; net \$1.35.
 No. public lamps, 15. Price per year, \$30.
 Consumption per burner per hour, 6 cu. ft.
 Price includes repairs, care, lighting and
 extinguishing.
 Lighted 4,000 hours.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 15 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 50.

ELECTRICAL DEPARTMENT

(Operated under same name as gas company.)
 Arc system, Brush, 80 (1,200 c. p.) arcs capac.
 Incand. system, S. K. C., 1,200 lamps capac.
 No. public arcs, 69. Hours lighted, 4,000.
 Price arc, Public, per year, \$75.
 Price arc, Commercial, per month, \$7 to 12
 A. M.; \$10 all night.

Price incand., Commercial, per kw-h., 15c.
 10 p. c. disc. for payment before 10th of
 month.

Power used, Steam.

Cost boiler fuel per ton, \$4.20.

Washington Light and Water Co., Washington.

Capital stock, \$200,000.
 Bonds, \$125,000; due 1931; interest, 5 p. c.
 President, W. F. Halstead.
 Secretary, A. N. Walker.
 Treasurer, S. S. Spruks.
 General manager Geo. T. Leach.
 Superintendent, C. F. Bland.
 Process manufacture, Lowe.
 Pop. dist. supplied, 7,000. No. meters, 250.
 Miles of mains, 9.
 Price gas, 1903: Light, gross \$2; net \$1.50.
 Fuel, gross and net \$1.25.
 No. public lamps, 105, all Welsbachs.
 Contract does not include repairs, care,
 lighting or extinguishing.
 Consumption per burner per hour, 6 c. f.
 No. hours lighted, 2,171.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 18.

**Consolidated Railways, Light and Power Co., Wil-
mington.**

Capital stock, pref. \$150,000; annual div. 5
 p. c.; com. \$350,000.
 Bonds, \$308,300; due 1932; interest, 5 p. c.
 President, Hugh McRae.
 Secretary, H. Woolcott.
 Treasurer, R. J. Jones.
 Purchasing agent, A. B. Skelding.
 Consulting engineer, W. W. Randolph.
 General manager, A. B. Skelding.
 Process manufacture, Coal.
 Pop. dist. suppl'd, 22,000. No. meters, 850.
 Miles of mains, approximate, 11.
 Price gas, 1903: Light, gross \$1.80; net \$1.70.
 Fuel, gross \$1.50; net \$1.30.
 No. public Welsbach lamps, 56.
 Consumption per burner per hour, 3 c. f.
 Contract includes repairs, care lighting and
 extinguishing.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 14.
 Proportion sold for fuel purposes, 16 p. c.
 Lowest pressure for gas stoves, 2.5.
 Gas stoves in use, 340.
 Supplies Wilmington.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Gen. Elec., (2,000 c. p.) 100 arcs
 capacity.
 Incand. sys., G. E., West'se, 4,000 lamps capac.
 Power generators, 400 kw. capac.
 No. public arcs, 84; hours lighted, 2,600.
 Price arc, Public, per year, \$83.50.
 Price Com'l arc, and incand., per kw., 14c.;
 disc. 10 p. c.
 Power used, Steam.
 Cost wood, per load, \$3.50.

"I would state that the **Welsbach** System of Street Lighting that was installed in this city in
 June, 1898, has proved entirely satisfactory to this Department."

(Signed) WILLIAM D. LANG, Superintendent of Lamps, Boston, Mass.

See advertisement, page xx.

Winston-Salem Gas and Lighting Co., Winston.

(Operated by the Sutherland Construction and Improvement Co.)

Capital stock, \$100,000.
Bonds, auth., \$125,000; outstanding, \$95,000.
President, E. B. Jones.
Secretary, Chas. L. Scott.
Treasurer, W. M. Reynolds.
Purchasing agent, R. V. Howes.
Superintendent, R. V. Howes.
Process manufacture, Coal.

Pop. dist. supplied, 16,000. No. meters, 325.
Miles of mains, approximate, 13.
Price gas, 1903: Light and Fuel, gross and net \$1.50.
No. public Welsbachs, 40.
Consumption per burner per hour, 3 c. f.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 7,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 300.

NORTH DAKOTA.**Union Light, Heat and Power Co., Fargo.**

Capital stock, \$600,000.
Bonds, auth., \$500,000; issued, \$265,000.
President, Wm. Mainland.
Secretary, O. G. Barnes.
Treasurer, Sinclair Mainland.
Purchasing agent, O. G. F. Markhus.
Process manufacture, Coal.
Pop. dist. supplied, 15,000. No. meters, 1,000.
Miles of mains, approximate, 18.
Price gas, 1903: Light, gross \$2.50; net \$2 Fuel, gross \$2; net \$1.60.
Annual output, approx., 15,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 500.
Cities supplied: Fargo, N.D., Moorhead, Minn.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 100 (2,000 c. p.) arcs capac.
Incand. syst., Gen. Elec., 15,000 lamps capac.
Power generators, 360 kw. capac.
Public arcs, 88; lighted all and every night.
Price arc, public per year, \$90.
Price arc and incand., Com'l per kw-h., 15c. disc. 10 to 60 p. c.
Power used, Steam.
Cost boiler fuel per ton, \$2 and \$5.20.

Grand Forks Gas and Electric Co., Grand Forks.

Capital stock, \$200,000; annual div., 6 p. c.
Bonds, \$145,000; due, 1904; interest, 6 p. c.
President, H. L. Whithead.
Vice-president, W. J. Murphy.
Secretary, Thomas Roycroft.
Treasurer, P. C. Dillon.
General manager, W. F. McNally.
Pur. agt. and supt., Thomas Roycroft.
Process manufacture, Lowe-Springer.
Pop. dist. supplied, 10,000. No. meters, 1,100.
Miles of mains, approximate, 10.
Price gas, 1903: Light, gross \$3; net \$2.50 to \$1.75. Fuel, net \$2.
Annual output, approx., 30,000,000 c. f.
Candle-power, 24.
Proportion sold for fuel purposes, 45 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 600.
Supplies Grand Forks.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Edison, 30 (2,000 c. p.) arcs capac.
Incand. system, Edison, 1,000 lamps capacity.
Price arc, Commercial, per month, \$7 to \$10.
Price incand., Commercial, per month, 16 c. p., 50c. to \$1.50; per kw-h., 10c.
Power used, Steam.
Cost boiler fuel per ton, \$6.

OHIO.**Akron Gas Co., Akron.**

Capital stock, pref. \$200,000; com. \$200,000.
Bonds outstanding, \$400,000; interest, 5 p. c.
President, J. R. Walsh.
Secretary, L. A. Walton.
Treasurer, L. A. Walton.
General manager, A. B. Eilbeck.
Process manufacture, Coal.
Population, 55,000. No. meters, 1,200.
Miles of mains, approximate, 52.
Price gas, 1904: Light and fuel, gross 30c. net 28c.
No. public Welsbach lamps, 29.
No. hours lighted per year, 4,380.
Contract includes repairs, care, lighting and extinguishing.
Annual output, approx., 125,000 000 c. f.

Candle-power, 18.
Proportion sold for fuel purposes, 75 p. c.
Lowest pressure for gas stoves, 5 in.
Gas ranges and heaters in use, 800.
Supplies Akron.

Alliance Gas and Electric Co., Alliance.

Capital stock, pref., \$15,000; com. \$150,000.
Bonds, \$135,000; due 1929; int., 5 p. c.
President, L. W. Prior.
Secretary and treas., Geo. W. York.
Purchasing agent, D. W. Low.
Superintendent, D. W. Low.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 10,000. No. meters, 688.
Miles of mains, approximate, 8.8.

We'sbach STREET LIGHTING COMPANY OF AMERICA:

GENTLEMEN: I am pleased to add my recommendation to your system of street lighting. From my experience of street lighting, particularly in cities where the streets abound in shade trees, I have found it vastly superior to electric lighting, and believe that it is the proper way for lighting all streets. (Signed) HENRY S. KEARNY, Commissioner. City of New York, Department of Public Buildings, Lighting and Supplies.

See advertisement, page xx.

Price gas, 1903: Light and Fuel, gross \$1.25; net \$1.20 to \$1.
 Annual output, approx., 16,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2.8 in.
 Gas stoves in use, 363.
 Supplies Alliance.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, G. E., Hartford, 100 (2,000 c. p.) and 80 (1,200 c. p.) arcs capacity.
 Incand. syst., Gen. Elec., 6,000 lamps capac.
 No. public arcs, 10 (2,000 c. p.); lighted 4,000 hours; 65 (1,200 c. p.) lighted 2,179 hours.
 No. public incand., 2.
 Price arc, Public, per year, \$73.33.
 Price public incand. 16 c. p. \$12.
 Price arc, Com'l, (1,200 c. p.) \$4; (2,000 c. p.) \$5.
 Price incand., Commercial, per month, 16 c. p., all night, \$1; per kw., 12.5c. and 5c.
 Power used, Steam.
 Cost boiler fuel, coal, per ton, \$2.

Ashland Gas and Electric Light Co., Ashland.

Capital stock, \$50,000.
 President, T. P. Potter.
 Secretary, J. R. Swartz.
 Treasurer, G. A. Ullman.
 Purchasing agent, J. R. Swartz.
 Superintendent, J. R. Swartz.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 375.
 Miles of mains, approximate, 6.
 Price gas, 1903, 75c.
 Annual output, approx., 8,500,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 62 (2,000 c. p.) arcs capac.
 Incandescent system, 800 lamps capacity.
 No. public arcs, 62; price per year, \$50.
 Lighting hours per year, arc 2,496; incand., 1,800.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.25.

Barnesville Gas and Electric Light Co., Barnesville.

Capital stock, \$28,000.
 President, J. W. Bradfield.
 Secretary, Fred Hunt.
 Treas. and pur. agt., J. W. Bradfield.
 Superintendent, H. D. Timmons.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,000.
 Price gas, 1903: Light, net \$1.80.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, 80 (2,000 c. p.) arcs capac.
 Incand. system, Ft. Wayne, 1,500 lamps capac.
 No. public arcs, 34; moon scale.
 No. public incandescents, 80 (50 c. p.)
 Power used, Steam.

Bellaire Light and Power Co., Bellaire.

(Consolidation of Bellaire Gas and Electric Co., and Belmont Electric Light and Power Co.)
 Supply of natural and manufactured gas discontinued.

Bellefontaine City Gas Works, Bellefontaine.

(Owned by the city. In charge of Board of Public Service.)
 Bonds, \$24,000; due 1915; int. 5 p. c.
 Director, C. W. Buchanan.
 Pur. agent and supt., C. W. Buchanan.
 Process manufacture, Lowe.
 Pop. dist. supplied, 8,500. No. meters, 2,000.
 Miles of mains, approximate, 14.
 Price gas, 1903: Light, net \$1.25. Fuel, 75c.
 No. public lamps, 15. Free.
 Consumption per burner per hour, av. 10 c. f.
 No. hours lamp is lighted per year, 3,400.
 Annual output, approx., 36,000,000 c. f.
 Candle-power, 23 to 24.
 Proportion sold for fuel purposes, 70 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Supplies Bellefontaine.

ELECTRICAL DEPARTMENT.

Arc system, Standard, W. E., 240 (2,000 c. p.) arcs capac.
 Incand. system, West's alt., 1,200 lamps capac.
 No. public arcs, 90; lighted 3,380 hours.
 No. public incand., 149; lighted 2,190 hours.
 Price arc, Public, per year, \$75.
 Price incand. public, per yr., (16 c. p.) \$6.
 Price arc, Commercial, per mo., \$4 to \$6.
 Price incand., Commercial, per month, 16 c. p., 50c.; 50 c. p., \$1.25; 100 c. p., \$2.50.
 Per kw. gross, 8.33c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.75.

Bucyrus Gas and Electric Light Co., Bucyrus.

Capital stock, \$150,000; annual div., 6 p. c.
 Bonds outstanding, \$147,000; interest, 6 p. c.
 President Isaac C. Baxter.
 Treasurer, Peter Young.
 Pur. agent and supt., J. W. Gwynn.
 Process manufacture, Lowe and Springer.
 Pop. dist. supplied, 7,000. No. meters, 620.
 Miles of mains, approximate, 18.
 Price gas, 1903: Light and Fuel, gross \$1.80; net \$1.35.
 Annual output, approx., 11,200,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 33½ p. c.
 Lowest pressure for gas stoves, 2.7 in.
 Gas stoves in use, 450.
 Supplies Bucyrus.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, W. Elec., Standard, 260 (2,000 c. p.) arcs capacity.
 Incand. system, Gen. Elec., 1,000 lamps capacity.
 No. public arcs, 102; lighted 2,649 hours.
 Price arc, Public, per year, \$100.
 Price arc, Com'l, per mo., (2,000 c. p.) \$7 to \$8.

THE **Welsbach STREET LIGHT** gives the highest candle power of light for the least money. See advertisement, page xx.

Price incand., Com'l, per kw-h., gross 15c.;
net 10c.
Power used, Steam.
Cost boiler fuel per ton, \$2.55.

Canton Gas Light and Coke Co., Canton.

Capital stock, \$150,000.
Bonds, \$150,000; due 1917; interest, 6 p. c.
President, Morris W. Stroud.
Secretary, Austin Lynch.
Treasurer, Morris W. Stroud.
Gen. supt. and pur. agt., S. P. Curtis, Phila.
Superintendent, L. W. Wells.
Process manufacture, Coal.
Pop. dist. supplied, 40,000. No. meters, 400.
Miles of mains, approximate, 19.
Price gas, 1903: Light and Fuel, gross \$1.20.
net \$1.
No. public Welsbach lamps, 50.
Consumption per burner per hour, 3 c. f.
No. hours lamp is lighted per year, 3,132.
Annual output, approx., 29,000,000 c. f.
Candle-power, 17.
Lowest pressure for gas stoves, 1.7 in.
Supplies Canton.
(Natural gas used in town for fuel.)

Chillicothe Gas Light and Water Co., Chillicothe.

Capital stock, \$100,000.
Bonds, \$100,000.
President, F. A. Stacey.
Secretary, A. C. Kopp.
Treasurer, Thos. G. McKell.
Manager, F. A. Stacey.
Purchasing agent, F. A. Stacey.
Process manufacture, Coal.
Pop. dist. supplied, 13,000. No. meters, 600.
Miles of mains, approximate, 25.
Price gas, 1903: Light, gross \$1.50; net \$1.25.
Fuel, gross \$1.25; net \$1.
Annual output, approx., 10,000,000 c. f.
Candle-power, 18 to 20.
Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 1 in.
(Natural gas competition.)

Cincinnati Gas and Electric Co., Cincinnati.

Capital stock, auth., \$31,000,000; annual div.,
4 p. c.
President, Norman G. Kenan.
Secretary, Henry W. Sage.
Treasurer, Theo. Clauss.
Purchasing agent, W. S. Gwynn.
Gen. supt. manf., Wm. A. Miller.
Gen'l supt. Electrical Dep't., Wm. von Phul.
Process manufacture, Coal.
Pop. dist. suppl'd, 375,000. No. meters, 40,000.
Miles of mains, approximate, 450.
Price gas, 1903: Light, gross 85c.; net 75c.
Fuel, gross 60c.; net 50c.
No. public Welsbach lamps, 3,000.
Consumption per burner per hour, 4 c. f.
Repairs, care, lighting and extinguishing,
\$5 per year.
No. hours lamp is lighted per year, 3,819.
Annual output, approx., 1,580,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 2.5 in.

Cities supplied, Norwood, Cincinnati, Hart-
well, Wyoming, Carthage, Lockland,
Bond Hill, Elmwood and Cheviot.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
gas company.)

Arc system, General Incand. Arc Light Co.,
2,000 kw. capacity.
Incand. and Power (A. C. and D. C.) system,
Gen. Elec. and Bullock, 16,000 kw. capac.
No. public arcs, 5,500; hours lighted, 3,820.
Price arc, Public, per year: Underground
district, \$72; overhead district, \$60.
Price per kw-h., 10c.; disc. 5 p. c. to 60 p. c.
Power used, Steam.
Storage capacity, 1,000 kw.

Circleville Light and Power Co., Circleville.

Capital stock, \$100,000.
Bonds, \$20,000; due 1916; interest, 6 p. c.
President, Howard Jones, M. D.
Vice-president, F. C. Hubbard.
Secretary, Percy A. Walling.
Treasurer, Percy A. Walling.
Purchasing agent, J. L. Stribling.
Superintendent, J. L. Stribling.
Process manufacture, Coal.
Population, 7,000. No. meters, 305.
Miles of mains, approximate, 10.
Price gas, 1903: Light, gross \$1.50 to \$1.25; net
\$1.45 to \$1.20. Fuel, \$1.
Annual output, approx., 7,000,000 c. f.
Candle-power, 18.
(Natural gas is used for fuel purposes.)

ELECTRICAL DEPARTMENT.

(Business conducted under same name as
gas company.)

Arc system, Ft. Wayne, 150 (1,200 c. p.) arcs
capacity.
Incand. system, Edison, 1,800 lamps capac.
No. public arcs, 131; hours lighted, 2,800.
Price arc, Public, per year, \$62.
Price incand., Com'l, per kw-h., 10c.
Power used, Steam.
Cost boiler fuel per ton, \$1.35.

Cleveland Gas Light and Coke Co., Cleveland.

Capital stock, \$4,000,000; annual div., 8 p. c.
President, M. S. Greenough.
Secretary, C. H. Beardslee.
Treasurer, C. H. Beardslee.
Asst. secretary, J. E. Jackemy.
Purchasing agent, C. H. Beardslee.
Superintendent, Wm. Christie.
Process manufacture, Coal.
Pop. dist. suppl'd, 340,000. No. meters, 39,000.
Miles of mains, approx., 475.
Price gas, 1903: Light and Fuel, gross and
net 75c.
No. public Welsbach lamps, 3,500. Price per
1,000 c. f., 75c.
Consumption per burner per hour, 3 c. f.
No. hours lamp is lighted per year, 3,760.
Annual output, approx., 1,500,000,000 c. f.
Candle-power, 19.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 1.2 in.

THE Welsbach SYSTEM distributes the light over all portions of the
area illuminated. See advertisement, page xx.

Peoples Gas Light Co., Cleveland.

President, Geo. H. Warmington.
 Vice-pres. and gen'l mgr., D. R. Warmington.
 Sec'y and treas., Walter K. Sladden.
 Purchasing agent, Dan'l R. Warmington.
 Process manufacture, Coal.
 Pop. dist. supplied, 160,000. Meters, 13,000.
 Price gas, 1904: Light and Fuel, 75c.
 No. public lamps, 2,700.
 No. hours lighted per year, 3,760.

Clyde Gas Co., Clyde.

(Out of business permanently.)

Columbus Gas Co., Columbus.

Capital stock, \$1,144,700.
 Bonds, \$1,500,000; due 1932; interest, 5 p. c.
 President, Geo. W. Sinks.
 Sec'y and treas., Wm. R. Powell.
 Process manufacture, Coal.
 Pop. dist. supplied, 140,000. No. meters, 2,500.
 Miles of mains, approximate, 293.
 Price gas, 1903: Light and Fuel, gross \$1.10;
 net \$1.
 Annual output, approx., 75,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 1 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 (City contains 250 miles natural gas mains.)

Conneaut Gas Light and Fuel Co., Conneaut.

Capital stock, \$60,000.
 President, Isaac C. Baxter.
 Secretary, Peter Young.
 Treasurer, Peter Young.
 Supt. and pur. agt., R. W. Miller.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 400.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$1.35; net, \$1.25.
 Fuel, gross \$1.10; net \$1.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 17.
 Lowest pressure for gas stoves, 3 in.
 Proportion sold for fuel purposes, 75 p. c.
 Supplies Conneaut.

Coshocton Gas Co., Coshocton.

(See natural gas department.)

Dayton Gas Light and Coke Co., Dayton.

Capital stock, \$1,000,000.
 President, R. R. Dickey.
 Vice-president, H. C. Graves.
 Secretary, Geo. M. Smart.
 Purchasing agent, R. R. Dickey.
 Superintendent, Joseph Light.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 95,000.
 Price gas, 1903: Light, and Fuel, gross \$1; net
 85c.
 No. Public lamps, 1,138; Inc. 829 Welsbachs.
 Price per year, (open flame) \$16.50.
 Consumption per burner per hour, 4 c. f.
 Price includes repairs, care, lighting and
 extinguishing.
 No. hours lamp is lighted per year, 3,764.
 Candle-power, 21.
 Lowest pressure for gas stoves, 1.5 in.

Peoples Gas and Electric Co., Defiance.

Capital stock, \$150,000; annual div., 6 p. c.
 Bonds \$120,000; due 1919; interest, 5 p. c.
 President, W. P. Engel.
 Sec'y and treas., Z. G. Engel.
 Superintendent and pur. agent, W. P. Engel.
 Process manufacture, Coal.
 Pop. dist. supplied, 1,200. No. meters, 500.
 Miles of mains, approximate, 20.
 Price gas, 1903: Light and Fuel, gross, \$1.50;
 net \$1.12.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 15.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 250.
 Supplies Defiance.

ELECTRICAL DEPARTMENT.

Arc system, Ft. Wayne, 125 (2,000 c. p.) arcs
 capacity.
 Incand. system, Ft. Wayne, 6,000 lamps
 capacity.
 Power generators, 100 kw. capacity.
 No. public arcs, 90; hours lighted, 3,900.
 No. public incandescents, 4,000.
 Price arc, Public, per year, \$75.
 Price incand., Com'l, per kw., 8c. to 10c.
 Power used, Steam.
 Cost boiler coal, per ton, \$2.90.

Delphos Gas Light Co., Delphos.

(Owned by Consolidated Gas and Light Co.,
 Toledo.)
 Capital stock, \$25,000.
 Bonds outstanding, \$15,000; interest, 6 p. c.
 Process manufacture, Van Syckel (oil).
 Pop. dist. supplied, 5,000. No. meters, 160.
 Price gas, 1903: Light, gross and net \$1.50.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 20.

Citizens Gas and Electric Co., Elyria.

(Now supplying natural gas. See natural
 gas department.)

Citizens Gas Light and Coke Co., Findlay.

(Artificial plant in course of construction.)
 Supplies natural gas. See appendix.

City Heat and Light Co., Fostoria.

(Gas department shut down owing to
 natural gas competition. Gas data below
 for 1901).
 Capital stock, \$250,000.
 Bonds \$250,000; due 1928; interest, 5 p. c.
 President, Thomas R. Heller.
 Vice-president, J. J. Cramer.
 Secretary, C. E. Lent.
 Treasurer, I. J. Eshelman.
 Pur. agent, H. E. Bradner.
 Superintendent, J. J. Cramer.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 10,000. No. meters, 600.
 Miles of mains, approximate, 23.
 Price gas, 1901: Light, and Fuel, net \$1.
 Annual output, approx., 24,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 55 p. c.

"The metropolitan appearance of the lamp itself, together with the clear, white, steady, powerful light, put the **Welsbach** clear in the lead of anything on the market to-day for the purpose of street lighting."

(Signed) W. W. BINGHAM, President, City Council, Omaha.

See advertisement, page xx.

Lowest pressure for gas stoves, 2.4 in.
Supplies Fostoria.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Excelsior, 210 (2,000 c. p.) arcs capacity.

Incand. system, Ft. Wayne, 2,000 lamps capac.

No. public arcs, 123. Hours lighted, 4,000.

No. public incandescents, 50.

Price arc, Public, per year, \$90.

Price arc, Commercial, per month, \$5.

Price incand., Public, per year, 16 c. p., \$6.

Price incand., Commercial, per month, 16 c. p., 50c.; 32 c. p., \$1.

Power used, Steam.

Cost boiler fuel per ton, \$2.15.

Galion Gas Light Co., Galion.

(Controlled by American Gas and Electric Co., Providence, R. I.)

Capital stock, \$100,000.

Bonds, \$60,000; due 1932; interest 5 p. c.

President, S. N. Blake.

Secretary, R. O. Morgan.

Treasurer, Geo. Humphrey.

Superintendent, R. O. Morgan.

Process manufacture, Coal.

Pop. dist. supplied, 9,000. No. meters, 560.

Miles of mains, approximate, 8.5.

Price gas, 1903: Light and Fuel gross \$1.50; net \$1.

Annual output, approx., 15,000,000 c. f.

Candle-power, 18.

Proportion for fuel purposes, 20 p. c.

Lowest pressure for gas stoves, 2.5 in.

Gas stoves in use, 150.

Supplies Galion City.

Gallipolis Gas and Coke Co., Gallipolis.

Capital stock, \$31,450; annual div. 6 p. c.

Bonds, \$30,000; interest 5 p. c.

President, Chas. F. Stockhoff.

Secretary, Chas. D. Kerr.

Treasurer, C. W. Henking.

Supt. and pur. agt., C. L. Steenberg.

Process manufacture, Coal.

Pop. dist. supplied, 6,500. No. meters, 550.

Miles of mains, approximate, 3.

Price gas, 1903: Light and Fuel, gross and net \$1.25.

Annual output, approx., 10,000,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 225.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc sys., G. E., 100 (2,000 c. p.) arcs capac.

Power generators, 150 kw capac.

No. public arcs, 55.

Price arc, public per year, \$64.50.

Price arc and incand. Com'l, per kw., 10c.

Power used, Steam.

Cost of boiler coal per ton, \$2.

Greenville Gas Co., Greenville.

Capital stock, \$50,000.

Bonds outstanding, \$25,000; due 1934; interest, 5 p. c.

President, William T. Morris.

Secretary, Daniel Morris.

Treasurer, William T. Morris.

General manager, T. W. Summers.

Superintendent of Works, C. A. Schwarm.

Process manufacture, Coal.

Pop. dist. supplied, 7,000. No. meters, 400.

Miles of mains, approximate, 9.

Price gas, 1903: Light, net \$1.50. Fuel, net \$1.

Annual output, approx., 6,000,000 c. f.

Candle-power, 16.

Proportion sold for fuel purposes, 5 p. c.

(Natural gas used for fuel purposes.)

City Gas Works, Hamilton.

(Owned by the city.)

Bonds \$140,000; int. 5 p. c.

Director Public Works, Jos. J. Pater.

Secretary, John F. Heath.

Treasurer, City Treasurer.

Superintendent, R. N. Andrews.

Process manufacture, Coal and Kendall (oil).

Pop. dist. supplied, 25,000. No. meters, 2,800.

Miles of mains, approximate, 37.

Price gas, 1903: Light and Fuel, gross and net 80c.

No. public lamps, 219. Price per year, \$18.

Consumption per burner per hour, 4 c. f.

Price includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 4,200.

No. public Welsbach lamps, 1 (incl. above).

Annual output, approx., 73,000,000 c. f.

Candle-power, 20.

Proportion sold for fuel purposes, 45 p. c.

Lowest pressure for gas stoves, 2.3 in.

Gas stoves in use, approximate, 1,600.

ELECTRICAL DEPARTMENT.

(Business conducted under name of City Electric Light Plant.)

Arc system, W. Elec., 300 (2,000 c.p.) arcs capac. Incandescent system, Stanley, alt., 11,000 lamps capacity.

No. public arcs, 212; hours lighted, 4,200.

Price arc, Public, per year, \$75.

Price arc, Commercial (2,000 c. p.), \$4; (1,200 c. p.) \$3.

Price incand., Com'l, per mo., 16 c. p., 50c.; per kw-h., 8c.; disc., 25 p. c. (200 kw. per mo.)

Power used, Steam.

Cost boiler fuel per ton, \$3.25.

Hamilton Gas Light and Coke Co., Hamilton.

Capital stock, \$100,000.

President, Charles W. Andrews.

Secretary, W. E. Bender.

Treasurer, R. E. Field.

Purchasing agent, Charles W. Andrews.

Superintendent, Wm. Hamill.

Purchases gas from Hamilton-Otto Coke Co.

Pop. dist. supplied, 26,000. No. meters, 1,150.

Price gas, 1903: Light and Fuel, gross and net 80c.

Annual output, approx., 70,000,000 c. f.

Candle-power, 18.

THE Welsbach SYSTEM distributes the light over all portions of the area illuminated. See advertisement, page xx.

Proportion sold for fuel purposes, 75 p. c.
Lowest pressure for gas stoves, 3 in.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Hamilton Electric Light Co.)

Arc system, Westinghouse, alt., 40 (1,200 c. p.) arcs capacity.
Incand. system, West's, alt., 3,000 lamps capac.
Power service for motors, 350 h. p.
Price arc, Com'l, per month, to 12 P. M., \$5.
Price incand., Commercial, per month, 16 c. p., to 12 P. M., 75c.; per kw-h., 6c. to 8c.
Power used, Steam and Gas.
Cost boiler fuel per ton, \$2.15.

Hamilton-Otto Coke Co., Hamilton.

Capital stock, authorised, \$500,000.
Bonds authorised, \$500,000; interest, 5 p. c.
President, C. W. Andrews.
Vice-president, F. L. Garrison.
Secretary, W. E. Bender.
Superintendent, J. C. Adams.
Process manf., Otto-Hoffmann Coke Oven.
Daily output, approximate, 1,200,000 c. f.
Candle-power, 18.
Supplies gas to the Hamilton Gas Light and Coke Co.

Hillsboro Light and Fuel Co., Hillsboro.

Capital stock, \$20,000.
Bonds outstanding, \$13,000; due 1909; int. 6 p. c.
President, Wilmot Sperry.
Secretary, Charles V. Critchfield.
Treasurer, Charles V. Critchfield.
Purchasing agent, Charles V. Critchfield.
Superintendent, Charles V. Critchfield.
Process manufacture, Coal.
Pop. dist. supplied, 6,000. No. meters, 300.
Miles of mains, approximate, 10.
Price gas, 1903: Light, gross, \$1.50. Fuel, gross, \$1.35 to \$1.
Annual output, approx., 6,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2.9 in.
Gas stoves in use, 80.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 75 arcs capacity.
Incand. system, Ft. Wayne, 1,200 lamps capac.
No. public arcs, 69; lighted 2,400 hours.
Price arc, Public, per year, \$87.50.
Price incand., Com'l, flat rate, 35c. to 75c. per kw-h., 10c.
Power used, Steam.
Cost boiler coal per ton, \$2.50.

Ironton Gas Co., Ironton.

Capital stock, \$80,000.
President, F. P. Horschel.
Secretary, M. Anderson.
Treas. and pur. agent, M. Anderson.
Superintendent, James Halterman.
Process manufacture, Coal.
Pop. dist. supplied, 12,500. No. meters, 350.
Miles of mains, approximate, 12.

Price gas, 1903: Light, gross \$1.25; net \$1.10
Fuel, gross \$1; net 90c.
Annual output, approx., 8,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 2 p. c.
Lowest pressure for gas stoves, 2 in.

Kenton Gas and Electric Co., Kenton.

Capital stock, \$200,000.
Bonds, \$30,000; due 1910; interest, 6 p. c.
President, Samuel Lee.
Secretary, W. S. Robinson.
Treasurer, J. Emmons.
Pur. agt. and supt., E. W. Plaisted.
Process manufacture, McKay-Critchlow.
Pop. dist. supplied, 8,000. No. meters, 850.
Miles of mains, approximate, 45.
Price gas, 1903: net: Light, \$1.50; Fuel, \$1.
Annual output, approx., 7,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 5 p. c.
Lowest pressure for gas stoves, 1.9 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, G. Elec., 150 (2,000 c. p.) arcs capac.
Incand. system, Gen. Elec., Westinghouse, 2,000 lamps capacity.
Power generators, 390 kw. capac.
No. public arcs, 122; hours lighted, 4,000.
Price arc, Public, per year, \$70.
Price arc, Commercial, per month, \$5.
Price incand., Public and Com'l per month, 16 c. p., 50c.; per kw-h., 10c.
Power used, Steam and Gas (50 h. p.)
Cost boiler fuel per ton, \$2.50.

Lancaster Gas Light and Coke Co., Lancaster.

Capital stock, \$50,000.
President, George Matt.
Sec'y and gen. mgr., Edward Matt.
Treasurer, Wm. L. Martin.
Purchasing agent, Edward Matt.
Process manufacture, Coal.
Pop. dist. supplied, 10,000. No. meters, 245.
Miles of mains, approximate, 10.
Price gas, 1903, \$1.50.
Annual output, approx., 6,000,000 c. f.
Candle-power, 18.
(City owns natural-gas plant which supplies natural gas by meter. Large and small consumers pay 10 cents per 1,000 c. f.)

ELECTRICAL DEPARTMENT.

(Business conducted under name of Lancaster Electric Light Co.)

Arc system, T. H., 220 (2,000 c. p.) arcs capac.
Incand. sys., Gen. Elec., 4,000 lamps capac.
No. public arcs, 100; hours lighted, 4,000.
No. Public incand., 7; Hours lighted, 4,000.
Price arc, Public, per year, \$85.
Price incand., Public, per yr., \$18.
Price arc, Commercial, per mo., \$2.50 to \$5.
Price incandescent, Commercial, per month, 16 c. p., 50c.; per kw-h., 10c.
Power used, Steam.
(Use natural gas as boiler fuel.)

Owing to the shape of the Welsbach Mantle, the illumination of the street from an IMPROVED **Welsbach STREET LIGHT** is equal in every direction. This is not the case with other methods of lighting. See advertisement, page xx.

Lebanon Gas Co., Lebanon.

Capital stock, \$25,000.
 Bonds, \$22,000; due 1918; interest, 6 p. c.
 President, W. F. Eltyroth.
 Secretary, Frank Brandon.
 Treasurer, John A. Thompson.
 Manager and pur. agent, S. M. Little.
 Process mnf., Coal and Van Syckel (oil).
 Pop. dist. supplied, 3,500. No. meters, 234.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$1.50. Fuel, \$1.25.
 Annual output, approx., 4,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 115.
 Supplies Lebanon.

Lima Gas Light Co., Lima.

Capital stock, \$200,000.
 Bonds, \$120,000; due 1913; interest, 6 p. c.
 President, James Murdock.
 Secretary, S. E. Mulholland.
 Treasurer, S. E. Mulholland.
 General manager, S. T. Murdock.
 Superintendent, J. D. S. Neely.
 Process manufacture, Lowe and Coal.
 Pop. dist. supplied, 25,000. No. meters, 1,700.
 Miles of mains, approximate, 26.
 Price gas, 1903: Light, gross and net, \$1.25.
 To commercial consumers, net \$1.
 No. pub. Welsbachs, 173. Lighted 4,000 hours.
 Annual output, approx., 35,000,000 c. f.
 Candle-power, 25.
 Supplies Lima.
 (Natural gas used for fuel purposes.)

London Gas Light Co., London.

Capital stock, \$38,000.
 Mortgage outstanding, \$12,000; int., 6 p. c.
 President, W. M. Jones.
 Sec'y and Treas., F. W. Walker.
 Superintendent and pur. agt., Harry Aunes.
 Process manufacture, Lowe.
 Pop. dist. supplied, 3,500. No. meters, 300.
 Miles of mains, approximate, 14.
 Price gas, 1903: Light and Fuel, gross \$1.25.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel, 25 to 30 p. c.
 Lowest pressure for gas stoves, 1.4 in.
 Gas stoves in use, 93. Engines, 6.
 Supplies London.

The Citizens Gas and Electric Co., Lorain.

(Now supplying natural gas. See Elyria, natural gas department.)

Mansfield Gas Light Co., Mansfield.

Capital stock, auth., \$150,000; issued, \$135,000.
 Annual dividend, 5 p. c.
 President, H. M. Weaver.
 Vice-president, Jas. P. Seward.
 Secy. and treas., Jos. S. Hedges.
 Superintendent, Claud B. Pattrell.
 Process manufacture, Lowe.
 Pop. dist. supplied, 18,000. No. meters, 1,000.
 Miles of mains, approximate, 20.
 Price gas, 1903: Light, gross \$1.50; net \$1.25.
 Fuel, gross \$1.25; net \$1.
 Annual output, approx., 26,341,980 c. f.

Candle-power, 22.
 Proportion sold for fuel purposes, 38 p. c.
 Lowest pressure for gas stoves, 1.2 in.
 Gas stoves in use, 400.
 Supplies Mansfield.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Mansfield Electric Light and Power Co.)

Arc system, Ft. Wayne, 175 (2,000 c. p.) arcs capacity.
 No. public arcs, 155; hours lighted, 3,600.
 Price arc, pub., per year (2,000 c. p.), \$100.
 (City contract expires April, 1904; not renewed.)
 Price arc, Com'l, per mo. (2,000 c. p.), \$20; (1,200 c. p.) \$6.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.25.
 (About to install incandescent system.)

Mechanicsburg Gas Light Co., Mechanicsburg.

Capital stock, \$15,000; annual div., 10 p. c.
 President, J. C. Sceva.
 Secretary and treasurer, P. J. Burnham.
 Purchasing agent, V. G. Riddle.
 Superintendent, V. G. Riddle.
 Process manufacture, Smith (oil).
 Pop. dist. supplied, 2,000. No. meters, 300.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, gross \$1.40; net \$1.30.
 No. public lamps, 66. Price per year, open flame, \$20.
 Price includes repairs, care, lighting and extinguishing.
 Lighted by Philadelphia schedule.
 No. public Welsbach lamps, 60 (incl. above).
 Candle-power, 60.
 Gas stoves in use, 15.

Middletown Gas and Electric Light Co., Middletown.

Capital stock, \$50,000.
 Bonds, \$35,000; due 1919; interest, 6 p. c.
 President, W. L. Dechant.
 Vice-president, C. E. Denny.
 Secretary and treasurer, G. N. Clapp.
 General mgr. and pur. agt., G. N. Clapp.
 Superintendent, Henry Ayers.
 Process manufacture, Coal.
 Pop. dist. supplied, 11,000. No. meters, 736.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light and Fuel, gross \$1.10; net \$1. Gas engines, net 80c.
 Annual output, approx., 28,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 45 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 450.

Mt. Vernon Gas Light and Coke Co., Mt. Vernon.

(Plant shut down. See Natural Gas Dept.)

Newark Gas Light and Coke Co., Newark.

Capital stock, \$52,200.
 Bonds outstanding, \$15,000; interest, 5 p. c.
 President, Beman G. Dawes.
 Sec'y and treas., W. A. Robbins.
 Process manufacture, Coal.
 Pop. dist. supplied, 25,000. No. meters, 690.
 Miles of mains, approximate, 15.

Welsbach System of Street Lighting.

Price gas, 1903: Light, gross \$1.50; net \$1.35.
 Fuel, gross \$1; net 90c.
 Annual output, approx., 17,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 12 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 30.

Norwalk Gas and Electric Co., Norwalk.

Capital stock, \$125,000.
 Bonds, \$110,000; due 1920; interest, 6 p. c.
 President, Ed. L. Young.
 Secretary, J. A. Nester.
 Treasurer, F. L. Fuller.
 Purchasing agent, J. A. Nester.
 Superintendent, J. A. Nester.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 1,100.
 Miles of mains, approximate, 19.
 Price gas, 1903: Light and Fuel, gross \$1; net 80c.
 Annual output, approx., 26,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 500.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Brush, 130 (2,000 c. p.) arcs capac.
 Incand. system, Gen. Elec., 4,500 lamps capac.
 No. public arcs, 104; hours lighted, 2,190.
 Price arc, Public, per year, \$70.
 Price incand., Com'l, 16 c. p., per kw., 10c.
 Power used, Steam.
 Cost boiler coal per ton, \$2.10.

Oberlin Gas and Electric Co., Oberlin.

Capital stock, \$75,000.
 Receiver, J. C. Hill.
 Process manufacture, Coal.
 Population, 6,000. No. meters, 350.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
 Annual output, approx., 16,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 75 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, about 200.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Gen. Elec., 65 (1,200 c. p.) arcs capacity.
 Incand. system, Gen. Elec., 2,000 lamps capacity.
 Power generators, 135 kw. capacity.
 No. public arcs, 50; hours lighted, 1,875.
 No. public incand., 8; lighted 1,800 hours.
 Price arc, Public, per year, \$66.
 Price incand., Commercial, per month, 50c.; per kw., gross 10c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.

Painesville Gas Light and Coal Co., Painesville.

Capital stock, \$40,000.
 President, George P. Steele.
 Vice-president, S. R. King.
 Secretary, C. H. Frank.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 500.
 Miles of mains, approximate, 10.
 Price gas, 1903, gross and net: Light, \$1.25; Fuel, \$1.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 1.4 in.
 Supplies Painesville.

Paulding Gas Light and Fuel Co., Paulding.

(New company.)
 Capital stock, \$30,000.
 President, H. C. Glynn.
 Secretary, James Lynn.
 Treasurer, O. K. Dickerson.
 Superintendent, James Lynn.
 Process manufacture, Water.
 Pop. dist. supplied, 30,000. No. meters, 60.
 Miles of mains, approximate, 6.
 Price gas, 1903: gross \$1.40; net \$1.30.

Piqua Gas Light and Coke Co., Piqua.

Capital stock, \$50,000; annual div., 8 p. c.
 President, Joseph Light.
 Secretary, Chas. W. DeArmon.
 Treasurer, Chas. W. DeArmon.
 Gen. mgr. and pur. agt., Joseph Light.
 Superintendent, Chas. W. DeArmon.
 Process manuf., Coal and McKay-Critchlow.
 Pop. dist. supplied, 12,000. No. meters, 450.
 Miles of mains, approximate, 10.
 Price gas, 1903: Net, Light \$1.50; Fuel \$1.
 Annual output, approx., 7,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 1.2 in.
 Gas stoves in use, 20.

Portsmouth Gas Co., Portsmouth.

Capital stock, \$150,000.
 President, James T. Lynn.
 Secretary, E. T. Lynch.
 Treasurer, E. T. Lynch.
 Purchasing agent, James T. Lynn Co.
 Superintendent, W. F. Clausen.
 Process manufacture, Coal.
 Pop. dist. supplied, 20,000. No. meters, 1,550.
 Miles of mains, approximate, 18.
 Price gas, 1903: Light and Fuel, gross \$1.30; net \$1.20 to \$1.
 Annual output, approx., 29,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.

Ravenna Gas and Electric Light Co., Ravenna.

Capital stock, \$55,800.
 Bonds \$12,000; due, \$1,000 April 1, yearly; interest, 5 p. c.
 President, Charles Merts.
 Vice-president W. J. Hayes.
 Secretary, W. A. Root.

Have you seen THE **Welsbach** SYSTEM OF STREET LIGHTING in operation? We invite examination and comparison. See advertisement, page xx.

Treasurer, W. H. Beebe.
 Purchasing agent, E. C. Lindsey.
 Superintendent, E. C. Lindsey.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,500. No. meters, 696.
 Miles of mains, approximate, 10.
 Price gas, 1903, net: Light, \$1.50; Fuel, \$1.
 Annual output, approx., 9,400,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 No. gas stoves in use, 300.
 Supplies Ravenna.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Ft. Wayne, 80 (2,000 c. p.) arcs capacity.
 Incand. system, Ft. Wayne, 750 lamps capac.
 No. public arcs, 61; lighted 2,200 hours.
 Price arc, Public, per year, \$72.50.
 Price arc com'l, \$5 for one; \$3 each additional.
 Price incand., Com'l, per kw. 10 to 15 c.; flat rate 25 to 50c. per mo.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.50.

Ripley Gas Light and Coke Co., Ripley.

Capital stock, \$18,400.
 Bonds, \$15,000; due 1926; interest, 5 p. c.
 President, F. A. Stivers.
 Secretary, J. C. Leggett.
 Treasurer, Citizens' National Bank.
 Purchasing agent, S. B. Cradit.
 Superintendent, S. B. Cradit.
 Process manufacture, Coal.
 Pop. dist. supplied, 2,500. No. meters, 130.
 Miles of mains, 5.
 Price gas, 1903: Light and Fuel, gross and net \$1.50.
 Annual output, approx., 2,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 1.2 in.
 Gas stoves in use, 10.
 Supplies Ripley.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, alt., 65 (2,000 c. p.) arcs capacity.
 Incandescent system, alt., 700 lamps capac.
 No. public arcs, 46; hours lighted, 4,015.
 No. public incandescents, 600.
 Price arc, Public, per year, \$80.
 Price arc, Commercial, per month, \$4.50.
 Price incand., Public and Com'l, per year; 16 c. p., \$5; 32c. p., \$10; per kw-h., 10c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.

Salem Gas Light Co., Salem.

Capital stock, auth., \$100,000; issued, \$50,000.
 Annual dividend, 6 p. c.
 Bonds, \$9,000; due 1913; int., 5 p. c.
 President, W. C. Boyle.
 Secretary, R. V. Hampson.

Treasurer, R. V. Hampson.
 Purchasing agent, W. C. Boyle.
 Superintendent, W. C. Boyle.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000. No. meters, 700.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light, gross \$1.20; net \$1.10.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 200.
 Supplies Salem.

Sandusky Gas and Electric Co., Sandusky.

(Consolidation of the artificial and natural gas and electric light companies.)

Capital stock, \$500,000.
 Bonds outstanding, \$500,000; interest, 5 p. c.
 President, B. Mahler.
 Secretary, F. W. Coen.
 Treasurer, A. L. Moss.
 Gen'l superintendent, A. C. Blinn.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 20,000. No. meters, 1,875.
 Miles of mains, approximate, 50.
 Price gas, 1903: Light and Fuel, 80c.
 Annual output, approx., 65,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 750.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Gen'l Elec., 250 (1,200 c. p.), 50 (1,200 c. p.), arcs capacity.
 Incandescent system, Gen. Elec. and Warren, 8,000 lamps capacity.
 No. public arcs, 165; hours lighted, 3,750.
 Price arc, Public, per year, \$77.50.
 Price incand., Commercial, per kw., 10c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.

Sidney Gas Light Co., Sidney.

Capital stock, \$30,000.
 President, Frank E. Randall.
 Secretary, E. W. Hanley.
 Treasurer, E. W. Hanley.
 Purchasing agent, A. L. Marshall.
 Superintendent, J. D. S. Neeley.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,750. No. meters, 271.
 Miles of mains, approximate, 6.
 Price gas, 1903: gross \$1.65; net \$1.50.
 Annual output, approx., 7,500,000 c. f.
 Candle-power, 18.
 Supplies Sidney.

ELECTRICAL DEPARTMENT.

(Operated as the Sidney Electric Light Co.)

Capital stock, \$25,000.
 Arc system, Western, 120 arcs capacity.
 Incand. system, T. H., 3,675 lamps capacity.
 No. public arcs, 78; lighted all night.
 Price arc, Public, per year, \$75.
 Price arc, Commercial, per mo., \$6.25.
 Price incandescent, per kw-h., 9c.

The perfection of the service rendered where the **IMPROVED Welsbach STREET LIGHT** is in use has been particularly noted. See advertisement, page xx.

Power used, Steam.
Cost boiler fuel per ton, \$2.65

Springfield Gas Co., Springfield.

Capital stock, \$420,000.
Bonds outstanding, \$400,000; interest, 6 p. c.
President, F. E. Randall, New York.
Sec'y and treas., E. W. Hanley, Dayton.
Superintendent, E. D. Abbott.
Process manufacture, Coal.
Pop. dist. supplied, 40,000. No. meters, 2,900.
Miles of mains, approximate, 52.
Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
No. public Welsbach lamps, 726.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 85,000,000 c. f.
Candle-power, 17.
(Company supplies natural gas for fuel.)
No. consumers, natural gas, 3,553.
Price, private cons., 25c.
Supplies Springfield.

Steubenville Traction and Light Co., Steubenville.

Capital stock, \$1,000,000.
Bonds, \$700,000; due 1926; int., 5 p. c.
President, Morris W. Stroud.
Secretary, W. McD. Miller.
Treasurer, Morris W. Stroud.
Gen. supt. and pur. agent, S. P. Curtis, Phila.
General manager, J. Chas. Ross.
Process manufacture, Coal.
Pop. dist. supplied, 18,000. No. meters, 300.
Miles of mains, approximate 10.
Price gas, 1903: Light, gross \$1.30; net 90c. to \$1.20.
No. public lamps, 9. Price per year, \$30.
Contracted for by Pennsylvania R. R.
Consumption per burner per hour 8 c. f.
Price does not include repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 4,500.
Annual output, approx., 15,000,000 c. f.
Candle-power, 18.
Lowest pressure for gas stoves, 1.2 in.
(Natural gas used for fuel purposes.)

ELECTRICAL DEPARTMENT

(Operated under same name as gas company.)

Arc system, W. Elec. and Brush, 485 (2,000 c. p.) arcs capacity.
Incand. syst., Gen'l Elec., 6,000 lamps capac.
Power generators, 1,400 kw.
No. public arcs, 225; hours lighted, 4,000.
No. public incand., 20; lighted all night.
Price arc, Public, per year, \$75.
Price arc, Com'l, per month, \$4.50.
Price incand., Public, per year, 32 c. p., \$18; per kw-h., gross 12c.; net 6c. to 10c.
Price incand., Commercial, per kw., 12c.
Power used, Steam.
Cost boiler fuel, coal, per ton, \$1.30.

Consolidated Gas and Light Co., Tiffin.

(Artificial gas plant not operated. Now supplying natural gas.)
Capital stock, \$500,000.
Bonds outstanding, \$10,000; interest, 5 p. c.
President, R. G. Kerlin.
Secretary, W. H. Dore.

Treasurer, E. M. Kerlin.
Purchasing agent, E. M. Kerlin.
Superintendent, Thos. Espy.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Arc syst., Gen. Elec., 200 (2,000 c. p.) arcs capac.
Incand. syst., Ft. Wayne, 3,000 lamps capac.
Power generators, 300 kw. capacity.
No. public arcs, 81; hours lighted, 3,600.
Price arc, Public, per year, \$80.
Price arc, Commercial, per month, \$4 and \$5.
Price incand., Com'l, per mo., 16 c. p., 50c.
Per kw. gross, 10c.; disc. 10 to 50 p. c.
Power used, steam and gas engines.
Cost boiler fuel, coal, per ton, \$2.30.

Toledo Gas Light and Coke Co., Toledo.

Capital stock, \$888,000. Annual div., 6 p. c.
Bonds outstanding, \$150,000; interest, 4 p. c.
President, John Cummings.
Secretary, Thomas Biddle.
Treasurer, Second National Bank.
Gen. mgr. and pur. agt., C. R. Faben, Jr.
Assistant manager, Thos. B. Guitteau.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 100,000. No. meters, 10,500.
Miles of mains, approximate, 200.
Price gas, 1903: Light, gross \$1.10; net 95c. Fuel, gross 85c.; net 70c.
Annual output, approx., 250,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 25 p. c.
Lowest pressure for gas stoves, 1.7 in.
Supplies Toledo.

Troy Gas Co., Troy.

Capital stock, \$30,000.
Bonds outstanding, \$30,000; interest, 6 p. c.
President, Frank E. Randall.
Secretary, E. W. Hanley.
Treasurer, E. W. Hanley.
Process manufacture, Coal.
Pop. dist. supplied, 7,000. No. meters, 300.
Price gas, 1903: Light, \$1.50.
Annual output, approx., 5,000,000 c. f.
Candle-power, 16.
Lowest pressure for gas stoves, 1.5 in.

Upper Sandusky Gas Light Co., Upper Sandusky.

Capital stock, \$25,000.
President, Dr. R. N. McConnell.
Secretary, J. H. Powell.
Treasurer, J. J. Stoll.
Supt. and pur. agent, Wm. E. Martin.
Process manufacture, Van Syckel.
Pop. dist. supplied, 3,355. No. meters, 330.
Miles of mains, approximate, 3.
Price gas, 1903: Light, gross \$1.50. Fuel, \$1.25.
Annual output, approx., 3,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 150.

Urbana Gas Light and Coke Co., Urbana.

Capital stock, \$40,000.
President, Joseph Light.
Secretary, M. F. Colwell.
Purchasing agent, Joseph E. Light.

THE WELSBACH STREET LIGHT gives the highest candle power of light for the least money. See advertisement, page xx.

Superintendent, Joseph E. Light.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 380.
 Price gas, 1903: Light, gross \$1.50, with sliding scale.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 1 in.

Van Wert Gas Light Co., Van Wert.

Capital stock, \$100,000.
 Bonds, \$100,000; due 1919; interest, 5 p. c.
 President, J. B. Bradley.
 Secretary, H. C. Glenn.
 Treasurer, Wm. T. Morris.
 General manager, C. A. Schwarm.
 Superintendent, T. S. Atkinson.
 Superintendent of works, T. W. Summers.
 Process manufacture, Lowe.
 Pop. dist. supplied, 7,500. No. meters, 900.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$1.70; net \$1.50.
 Fuel, net 80c.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 45 p. c.
 Lowest pressure for gas stoves, 1 in.

Warren Gas Light Co., Warren.

Capital stock, \$60,000.
 President, Wm. R. Stiles.
 Secretary, Geo. H. Tayler.
 Treasurer, Geo. H. Tayler.
 Purchasing agent, Geo. H. Tayler.
 Superintendent, Geo. H. Tayler.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,500. No. meters, 800.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light and Fuel, gross and net 80c. to \$1.10.
 Annual output, approx., 27,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 43 p. c.
 Lowest pressure for gas stoves, 2.5 in.

Washington Gas and Electric Co., Washington.

Capital stock, \$100,000.
 Bonds, \$25,000; due 1909; interest, 5 p. c.
 President, H. B. Maynard.
 Secretary and treas., G. N. Clapp.
 General manager, G. N. Clapp.
 Superintendent, Joseph Gillespie.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,000. No. meters, 728.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$1.30; net \$1.23.5.
 Fuel, gross \$1; net 95c.
 Annual output, approx., 18,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 359.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., and Brush 170 (1,200 c. p.) arcs capacity.
 Incand. system, Gen. Elec. 3,000 lamps capac.
 Power generators, 100 kw.
 No. public arcs, 104; hours lighted, 3,000.

Price arc, Public, per year, \$65.
 Price incand., Com'l (32 c. p.), 75c. per mo.
 per kw-h., 10c. Disc. 5 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.55.

Wilmington Gas Light and Coke Co., Wilmington.

Capital stock, \$50,000; issued, \$30,000.
 President, G. N. Clapp.
 Secretary, H. J. Clapp.
 Treasurer and pur. agt., G. N. Clapp.
 Superintendent, F. F. Barnard.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 356.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$1.50; net \$1.40.
 Fuel, gross \$1.10; net \$1.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 200.

Wooster Gas Light Co., Wooster.

Capital stock, \$60,000.
 President, J. H. Kauke.
 Secretary, C. W. Kauke.
 Treas. and pur. agt., J. H. Kauke.
 Superintendent, C. W. Kauke.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 500.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, \$1.35; Fuel, \$1.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.2 in.
 Gas stoves in use, 250.

Peoples Gas and Electric Light Co., Xenia.

Capital stock, \$175,000.
 Bonds, \$173,000; due serially; int. 5 p. c.
 President, J. H. Brown.
 Vice-president, C. H. Kyle.
 Sec'y and treas., Geo. Mayer.
 General superintendent, R. S. Fuertado.
 Local superintendent, A. D. Hopper.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 800.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light, gross \$1.60; net \$1.40.
 Fuel, gross \$1.50; net \$1.25.
 Annual output approx., 15,000,000.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves 3 in.
 Gas stoves in use 400.
 Supplies Xenia.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system G. E., 135 (2,000 c. p.) arcs capac.
 Incand. syst., G. E., 3,500 lamps capac.
 Power generator 150 kw. capac.
 No. public arcs 112; lighted 2,750 hours.
 Price arc, Public, per year \$65.
 Price arc, Com'l, per mo. to 10 P. M. \$5.
 Price current per kw., gross 20c.; disc. 25 p. c.
 Power used, Gas Engine.
 Cost boiler coal per ton \$2.70.

THE IMPROVED **Welsbach** STREET LIGHTING FIXTURES furnish the perfection of street lighting outfits. See advertisement, page xx.

Youngstown Consolidated Gas and Electric Co. Youngstown.

Capital stock, \$955,000.
 Bonds, \$545,000; due 1930; interest, 5 p. c.
 President, H. W. Whipple.
 Secretary, M. A. Norris.
 Treasurer, O. W. Bright.
 Auditor, S. C. Rogers.
 Gen. man'r and pur. agent, R. Montgomery.
 Gen. Supt., J. H. Perkins.
 Process manufacture, Coal.
 Pop. dist. supplied, 50,000. No. meters, 1,600.
 Miles of mains, approximate, 25.
 Price gas, 1903: Light, gross \$1.10; net \$1.
 Annual output, approx., 28,000,000 c. f.
 Candle-power 20.
 (Natural gas used for fuel purposes.)
 Lowest pressure for gas stoves, 1.5 in.
 Cities supplied: Youngstown, Girard, Struthers, Sharon, Pa., Sharpsville, Pa.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Gen. Elec., 500 (2,000 c. p.) and 100 (1,200 c. p.) arcs capacity.
 Incand. system, West's, 6,000 lamps capac.
 Power generators, 2,600 kw. capacity.

No. public arcs, 400; hours lighted 2,400.
 Price arc, Public, per year, \$64.
 Price arc and incand., Com'l, per kw-h., 6c. to 12c.; disc. 33 p. c.; residences, 10 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.60.

Zanesville Gas Light Co., Zanesville.

Capital stock, \$50,000; annual div., 16 p. c.
 President, M. M. Granger.
 Secretary, Eugene Printz.
 Treasurer, Citizens' National Bank.
 Pur. agt. for works, Eugene Printz.
 Superintendent, Eugene Printz.
 Process manufacture, Coal.
 Pop. dist. supplied, 23,000. No. meters, 1,800.
 Miles of mains, approximate, 45.
 Price gas, 1903: Light and Fuel, gross & net \$1.
 No. public lamps, 33. Price per year, \$12.
 Consumption per burner per hour, 5 c. f.
 Price does not include repairs, care, lighting and extinguishing.
 Lighted by Philadelphia schedule.
 Annual output, approx., 35,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 (Natural gas competition.)

OKLAHOMA TERRITORY.**Guthrie Gas Light and Fuel Co., Guthrie.**

(New company, work laying mains started.)

Oklahoma Gas and Electric Co., Oklahoma.

Capital stock, \$300,000.
 Bonds, \$300,000; due 1922; interest, 5 p. c.
 President and gen. mgr., C. B. Ames.
 Secretary, W. E. Robertson.
 Treasurer, T. E. Davis.
 Purchasing agent, W. E. Robertson.
 Superintendent, M. G. Fristo.
 Process manufacture, Lowe.
 Pop. dist. supplied, 30,000. No. meters, 400.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$1.60; net \$1.50.
 Fuel, gross \$1.10; net \$1.
 Annual output, approx., 18,000,000 c. f.

Candle-power, 18.
 Proportion sold for fuel purposes, 90 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 400.
 Supplies Oklahoma City.

ELECTRICAL DEPARTMENT.

Arc system, Gen'l Elec., 150 arcs capacity.
 Incand. syst., Gen'l Elec., 24,000 lamps capac.
 Power generators, 550 kw. capacity.
 No. pub. arcs, 150 (2,000 c. p.); hrs lighted, 3,550.
 No. public incand., 30; lighted all night.
 Price arc, Public, per year, \$72.
 Price incand., Public, per year, 16 c. p., \$12.
 Price arc Commercial, per year, aver., \$84.
 Price incand., Com'l, per kw., 6c. to 15c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.85.

OREGON.**Astoria Gas and Electric Co., Astoria.**

Capital stock, \$300,000.
 Bonds, \$137,000; due 1921; interest, 6 p. c.
 President, S. Z. Mitchell.
 Sec'y and treas., C. N. Huggins.
 Gen. supt. and pur. agent., C. A. Coolidge.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 400.
 Miles of mains, approximate, 3.5.
 Price gas, 1903: Light, gross \$2.80. Fuel, \$1.85.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 18.

Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 75.

ELECTRICAL DEPARTMENT.

Arc syst., Gen. Elec., 100 (1,200 c. p.) arcs capac.
 Incand. system, Gen. Elec., 6,000 lamps capac.
 Power generators, 287 kw. capacity.
 No. public arcs, 56 (2,000 c. p.) lighted 4,000 hrs.
 Price arc, Public, per year, \$72.
 Price arc, Com'l, per month, \$8.
 Price incand., Com'l, per month, 16 c. p., \$1.

Welsbach STREET LIGHTING COMPANY OF AMERICA:

GENTLEMEN: I am pleased to add my recommendation to your system of street lighting. From my experience of street lighting, particularly in cities where the streets abound in shade trees, I have found it vastly superior to electric lighting, and believe that it is the proper way for lighting all streets. (Signed) HENRY S. KEARNY, Commissioner. City of New York, Department of Public Buildings, Lighting and Supplies.

Price per kw., gross 20c., disc. 5 to 50 p. c.
Power used, Steam.

Power used, Steam and Water.
Sawdust and wood used as boiler fuel.

Baker Gas and Electric Co., Baker City.

Capital stock, \$200,000. Annual div., 16 p. c.
Bonds, \$100,000; due 1930; interest, 6 p. c.
President, W. H. Gilbert.
Secretary, A. Welch.
Treasurer, J. T. Donley.
Pur. agt. and supt., A. Welch.
Process manufacture, Coal.
Pop. dist. supplied, 10,000. No. meters, 300.
Miles of mains, approximate, 8.
Price gas, 1903: Light, gross \$2.50; net \$1.50.
Fuel, gross \$2; net 1.
Annual output, approx., 5,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 10 p. c.
Gas stoves in use, 35.

ELECTRICAL DEPARTMENT.

Arc syst., Adams, Bagnell, G. E., 81 (1,200 c. p.)
arcs capacity.
Incand. syst., Gen. Elec., 8,000 lamps capac.
Power generators, 200 kw.
No. pub. arcs 40 (1,200 c. p.) lighted 3,650 hrs.
No. public incand. 16, lighted 3,900 hours.
Price arc, Public, per year \$96.
Price incand., Public, per year, \$12.
Price arc, Com'l., per month, \$8.
Price incand., Com'l., per month, 16 c. p.;
midnight 50c., all night \$1.; per kw., 15c.;
discount 5 p. c.

Portland Gas Co., Portland.

Capital stock, \$704,400.
Bonds, \$750,000; due 1951; int., 5 p. c.
President, C. F. Adams.
Secretary, A. L. Mills.
Treasurer, A. L. Mills.
Superintendent, W. S. Dole.
Sales manager, W. M. Kapus.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 80,000. No. meters, 7,724.
Miles of mains, approximate, 73.
Price gas, 1903: Light and Fuel, gross \$1.75;
net \$1.50.
Annual output, approx., 170,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, 3,042.

Salem Gas Light Co., Salem.

(Gas plant purchased by J. J. Henry, owner
of electric plant.)
Process manufacture, Coal.
Population district supplied, 8,000.
Price gas, 1903: Light, gross \$3; net \$2.50 and
\$2.25. Fuel, gross \$2.50; net \$2.25 and \$2.
Candle-power, 17.
Lowest pressure for gas stoves, 2 in.

PENNSYLVANIA.

Consolidated Gas Co. of City of Pittsburg, Allegheny. (See Pittsburg.)

Allentown Gas Co., Allentown.

Capital stock, \$300,000.
Bonds \$150,000; due 1906; interest, 6 p. c.
President, Samuel T. Bodine.
Secretary, Lewis Lillie.
Treasurer, Lewis Lillie.
Pur. agent, J. A. Pearson, Philadelphia.
Superintendent, A. F. Bigelow.
Process manufacture, Lowe.
Pop. dist. supplied, 38,000. No. meters, 5,719.
Miles of mains, approximate, 29.
Price gas, 1903: Light, and Fuel, gross and
net \$1.35.
Annual output, approx., 72,251,000 c. f.
Candle-power, 23.
Proportion sold for fuel purposes, 31 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 1,880.
Supplies Allentown.

Altoona Gas Co., Altoona.

Capital stock, \$300,000.
Bonds \$665,000; due 1932; int., 5 p. c.
President, Richard S. Storrs.
Secretary, W. H. West.
Treasurer, Murray W. Dodge.
Purchasing agent, Geo. H. Harper.
Manager, Geo. H. Harper.

Process manufacture, Coal and Lowe.
Population, 50,000. No. meters, 5,740.
Miles of mains, approximate, 37.
Price gas, 1903: Light and Fuel, gross \$1.20;
net \$1.10.
Annual output, approx., 128,000,000 c. f.
Candle-power, 21.
Proportion sold for fuel purposes, 38 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 800.
Supplies Altoona.

Ambler Gas Co., Ambler.

(Plant in course of construction.)
Capital stock, \$30,000.
President, J. B. Buchanan.
Treasurer, J. J. Houghton.
Purchasing agent, H. T. Duke.
Gen'l mgr. H. T. Duke, Philadelphia.
Pop. dist. supplied, 3,000.
Miles of mains, approximate, 3.
Price gas, to be: Light, gross \$2.
(Will take supply from North Penn. Gas Co.,
at Fort Washington.)

Merion & Rednor Gas & Electric Co., Ardmore, Pa.

Consolidation of:
The Lower Merion Gas Co.
The Haverford Electric Light Co.
The Wayne Electric Light Co.
The Peoples Gas Co., of Delaware County.

THE WELSBACH STREET LIGHT possesses great economy over any other method of street illumination. See advertisement, page xx.

Radnor Township Light Co.
 Radnor Township Heat Co.
 Easttown Township Light Co.
 Easttown Township Heat Co.
 Upper Merion Electric Light Co.
 Haverford Township Electric Light Co.
 Newton Township Electric Light Co.
 Radnor Township Electric Light Co.
 Easttown Township Electric Light Co.
 Tredyffrin Township Electric Light Co.
 Willistown Township Electric Light Co.
 Capital stock, \$1,000,000.
 Bonds, \$64,000; due 1915; interest, 6 p. c.
 President, Samuel T. Bodine.
 Secretary, Lewis Lillie.
 Asst. secy. and treas., R. F. Williams.
 Purchasing agent, J. E. Pearson.
 General Manager, J. L. Mather.
 Superintendent, C. H. Quackenbush.
 Process manufacture, Lowe.
 Pop. dist. supplied, 12,327. No. meters, 2,764.
 Miles of mains, approximate, 54.
 Price gas, 1903: Light, gross \$1.80; net \$1.70.
 Fuel, gross \$1.35; net \$1.25.
 No. public lamps, 187.
 Consumption per burner per hour, 3.5 c. f.
 Contract includes repairs, care, lighting and
 extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 70,783,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 45 p. c.
 Lowest pressure for gas stoves, 2.6 in.
 Gas stoves in use, 1,211.
 Cities supplied: Overbrook, Merion, Bala,
 Cynwyd, Narberth, Wynnewood, Ard-
 more, Haverford, Bryn Mawr, Rosemont
 and Wayne.

Ashland Gas Light Co., Ashland.

Capital stock, pref. \$5,000; com. \$25,000.
 President, Edwin C. Price.
 Secretary, K. L. Rentz.
 Treasurer, Hon. W. A. Marr.
 Pur. agt. and mgr., Edwin C. Price.
 Process manufacture, Janeway and Logan.
 Pop. dist. supplied, 7,000. No. meters, 200.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, gross \$2; net \$1.80.
 Fuel, net \$1.60.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 27.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 25.
 Cities supplied: Ashland and suburbs.

Athens and Sayre Gas Co., Athens.

(Owned and operated by the Gas Light Co.
 of Waverly, N. Y.)
 Capital stock, \$50,000; annual div. 5 p. c.
 Bonds, \$50,000; due 1929; interest, 5 p. c.
 President, F. T. Page.
 Secretary, F. A. Gillette.
 Treasurer, F. A. Gillette.
 Pur. agt. and supt., F. A. Gillette.
 Process manufacture, Lowe.
 Pop. dist. supplied, 16,500. No. meters, 592.
 Miles of mains, approximate, 15.
 Price gas, 1903, gross and net: Light, \$1.50;
 Fuel, \$1.25.
 No. public lamps, 47; lighted all night.

Annual output, approx., 18,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2.8 in.
 Gas stoves in use, 400.
 Cities supplied: Athens, Sayre, Waverly.

Bangor Gas Co., Bangor.

Capital stock, \$20,000.
 President, A. M. Paff.
 Secretary, C. J. Beck.
 Treasurer, O. Labar.
 Purchasing agent, W. H. Miller.
 Superintendent, W. H. Miller.
 Process of manufacture, Lowe, Granger.
 Pop. dist. sup., 2,200. No. of meters, 300.
 Miles of mains, approximate, 4.5.
 Price gas, 1903: Light and Fuel, gross \$1.60;
 net \$1.50.
 Annual output, approx., 4,300,000 c. f.
 Candle-power, 21.
 Proportion sold for fuel purposes, 27 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 150.
 Supplies Bangor.

Beaver Falls Gas Co., Beaver Falls.

(Discontinued supplying gas owing to nat-
 ural gas competition, and no immediate
 prospect of resuming operations.)

Bellefonte Gas and Steam Heating Co., Bellefonte.

(Company in hands of trustee and no report
 can be made. Data below for 1902.)
 Capital stock, \$40,000.
 Bonds, \$50,000; due 1907; interest, 6 p. c.
 President, H. Brockerhoff.
 Secretary, Isaac Mitchell.
 Treasurer, Charles M. McCurdy.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,500. No. meters, 240.
 Price gas, 1903: Light, net \$1.50. Fuel, net \$1.35.
 Annual output, approx., 3,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 2 in.
 (Supplies also steam heat to consumers.)

Berwick Consolidated Gas Co, Berwick.

(Expect to turn on gas about April 1, 1904.)
 Capital stock, \$100,000.
 President, Avery Clinton Sickels.
 Secretary, J. M. Rudy.
 Treasurer, J. M. Rudy.
 Purchasing agent, Avery Clinton Sickels.
 Process manufacture, Coal.
 Pop. to be supplied, 14,000.
 Meters (just setting) 250.
 Miles of mains, approx., 7.
 Price gas, gross \$1.50; net \$1.40.

Wyandotte Gas Co., Bethlehem.

Capital stock, \$600,000.
 Bonds, \$500,000; due 1929; interest, 5 p. c.
 President, Liddon Flick.
 Sec'y and treas., R. J. Flick.
 Pur. agt. and gen. mgr., Warren J. Flick.
 Process manufacture, Lowe.
 Pop. dist. supplied, 30,000. No. meters, 2,060.
 Miles of mains, approximate, 21.

THE **Welsbach STREET LIGHT** is a pure white light, unaffected by change of temperature, winds, or other natural disturbances. See advertisement, page xx.

Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.40.
 Annual output, approx., 39,360,600 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2.6 in.
 Gas stoves in use, 600.
 Towns supplied: Bethlehem, West Bethlehem, South Bethlehem, Fountain Hill.

American Gas Light Co., Bloomsburg.

President, E. B. Tustin.
 Secretary, Grant Pelton.
 Treasurer, A. W. Duy.
 Gen. mgr. and pur. agt., A. W. Duy.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 250.
 Price gas, 1903: Light, \$2; Fuel, \$1.25.
 Annual output, approx., 9,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 80.

ELECTRICAL DEPARTMENT.

(Business conducted under name of American Electric Light Company.)
 Arc system, T. H., Brush, 180 (2,000 c. p.) arcs capacity.
 Incand. system, Gen. Elec., 210-kw. capacity.
 No. public arcs, 67; hours lighted, 3,300.
 Price arc, Public, per year, \$80.
 Price arc, Commercial, per month, \$6.
 Price incand., Com'l, per mo., 16 c. p., to 9 P. M., 60c.; 10:30 P. M., 65c.; 12 P. M., 70c. all night, 95c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.60.

Braddock Gas and Light Co., Braddock.

Capital stock, \$250,000.
 Bonds, \$40,000; due 1908; interest 6 p. c.
 President, J. N. Reed.
 Secretary, W. B. Carson.
 Treasurer, C. J. Brann, Jr.
 Purchasing agent, Matthew Bigger.
 Superintendent, Robert Young.
 Gen'l auditor, C. S. Mitchell.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,654. No. meters, 75.
 Miles of mains, approximate, 3.3.
 Price gas, 1903, gross \$1.20; net \$1.
 Annual output, approximate, 4,126,100 c. f.
 Candle-power, 15.
 Supplies Braddock.

ELECTRICAL DEPARTMENT.

(No report.)

Bristol Gas Light Co., Bristol.

(Operated by Public Service Corporation of New Jersey.)
 Superintendent, Geo. W. Wright.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 712.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light and Fuel, \$1.50.
 Annual output, approx., 13,000,000 c. f.

Candle-power, 18.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 225.

Brownsville Light, Heat and Power Co., Brownsville.

Capital stock, \$60,000.
 Bonds, \$40,000; due 1922; interest, 5 p. c.
 President, S. H. Pearsall.
 Secretary, J. H. Snowdon.
 Treasurer, J. H. Snowdon.
 Purchasing agent, J. M. Bell.
 Superintendent, J. M. Bell.
 Process manufacture, Critchlow.
 Pop. dist. supplied, 5,500. No. meters, 75.
 Miles of mains, approximate, 2.
 Price gas, 1903: Light, gross \$1.50.
 Annual output, approx., 600,000 c. f.
 Candle-power, 20.
 Cities supplied: Brownsville and Bridgeport.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc syst., Ft. Wayne, 25 (1,200 c. p.) arcs capac.
 Incand. system, Ft. Wayne, 4,000 lamps capac.
 No. public arcs, 30; hours lighted, 3,200.
 No. public incand., 200.
 Price arc, Public, per year, \$60.
 Price arc, Commercial, per month, \$5.
 Price incand., Public, per year, 16 c. p., \$9.60.
 Price incand., Commercial, per month, 26c.; per kw., gross 10c.; disc. 5 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.75.

Carbondale Gas Co., Carbondale.

Capital stock, \$100,000.
 Bonds, \$9,000; due 1928; interest, 5 p. c.
 President, E. L. Fuller, Scranton.
 Secretary and treasurer, Mortimer B. Fuller.
 Purchasing agent, C. W. Weston.
 Superintendent, C. W. Weston.
 Process manufacture, Lowe.
 Pop. dist. supplied, 15,000. No. meters, 350.
 Miles of mains, approximate, 7.5.
 Price gas, 1903: Light \$1.80; Fuel \$1.65.
 Annual output, approx., 7,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2.25 in.
 Gas stoves in use, 75.
 Supplies Carbondale.

Carlisle Gas and Water Co., Carlisle.

Capital stock, \$100,000; issued \$60,000.
 Bonds outstanding, \$52,000; interest, 4 p. c.
 President, John Hays.
 Secretary, John B. Landis.
 Treasurer, John B. Landis.
 Purchasing agent, Charles E. Ramsey.
 Superintendent, Charles E. Ramsey.
 Process manufacture, Naphtha (oil).
 Pop. dist. supplied, 10,000. No. meters, 470.
 Price gas 1903: Light and Fuel, 95c. to \$1.50.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 22.
 Lowest pressure for gas stoves, 1.5 in.

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA will furnish complete plants for the lighting of the streets of cities, the gas being furnished by the gas company. See advertisement, page xx.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., American, 200 (2,000 c. p.) arcs capacity.
 Incand. system, Gen. Elec., Edison, 4,300 lamps capacity.
 No. public arcs, 74; lighted 10 hours.
 Price arc, Public, per year, \$88.78.
 Price arc, Commercial, per month, \$3.75.
 Price incandescent, Commercial, per month, 16 c. p., 40c. to 70c.; per kw-h., 12.5c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.60.

Lehigh-Northampton Gas & Electric Co., Catasauqua.

Capital stock, \$60,000.
 Bonds, \$40,000; due 1960; interest, 5 p. c.
 President, Lyddon Flick.
 Secretary, C. R. Horn.
 Treasurer, C. R. Horn.
 Purchasing agent, W. M. Dyatt.
 Superintendent, W. M. Dyatt.
 Process manufacture, Lowe.
 Pop. dist. supplied, 17,000. No. meters, 403.
 Miles of mains, approximate, 17.5.
 Price gas, 1903, gross and net: Light, \$1.80; Fuel, \$1.50.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 75 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 376.
 Supplies with gas the towns of Catasauqua, Hokendauqua, Coplay, Northampton and Siegfrieds.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Edison (110 v. 5 amp.)
 Incand. system, Edison, 7,000 lamps capac.
 Power generators, 325 kw. capacity.
 No. public arcs (2,000 c. p.), 34.
 No. public incandescents, 154.
 Price arc, Public, per year, \$80.
 Price incand., Public, per year, moon scale, 16 c. p., \$15.
 Price per kw., gross 17c.; disc. 10, 20, 25, 30 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$1.20.

Chambersburg Gas Co., Chambersburg.

Capital stock, \$46,925.
 President, A. Buchanan.
 Secretary and treasurer, Hastings Gehr.
 Purchasing agent, William G. Davison.
 Superintendent, Arthur B. Franty.
 Process manufacture, Lowe.
 Pop. dist. supplied, 8,000. No. meters, 800.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, \$1.85; Fuel, \$1.50.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2.5 in.

Suburban Gas Co. of Philadelphia, Chester.

(Consolidation of the Philadelphia Suburban Gas Co., Delaware Gas Co. and Media Gas Co.)

Capital stock, \$1,500,000.
 Bonds, \$2,000,000; due 1952; interest, 5 p. c.
 President, R. M. Janney.
 Vice-pres. and gen. mgr., J. D. Shattuck.
 Secretary, F. H. Shelton.
 Treasurer, F. H. Shelton.
 Purchasing agent, J. M. Callahan.
 Supt. Chester branch, J. M. Callahan.
 Supt. Media branch, W. H. Yocum.
 Process manufacture, Lowe and Semet Solvay Coke Ovens.
 Pop. dist. supplied, 70,000. No. meters, 9,750.
 Miles of mains, approximate, 148.
 Price gas, 1903: Light and Fuel, gross \$1.30; net \$1.20.
 No. public Welsbach lamps, 283.
 Consumption per burner per hour, 3 c. f.
 Contract includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 230,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 7,937.
 Cities supplied: Chester, Upland, Marcus Hook, Ridley Park, Prospect Park, Norwood, Glenolden, Sharon Hill, Darby, Lansdowne, Swarthmore, Rutledge, Morton, Colwyn, Yeadon, Wallingford and Media. This district lies southwest of Philadelphia extending 12 miles.

Clearfield Gas Co., Clearfield.

Capital stock, auth., \$30,000; issued, \$21,050.
 Semi-annual dividend, 2.5 p. c.
 President, Alex. Paterson.
 Secretary, J. B. Nevling.
 Treasurer, J. B. Nevling.
 Superintendent, J. B. Nevling.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000. No. meters, 250.
 Miles of mains, approximate, 2.5 to 3.
 Price gas, 1903: Light and Fuel, gross and net \$1.40.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 19.
 Lowest pressure for gas stoves, 4 in.
 Gas stoves in use, 20.
 Supplies Clearfield.

Coatesville Gas Co., Coatesville.

Capital stock, \$60,000.
 Bonds, \$75,000; due 1920; interest, 5 p. c.
 President, John Gribbel.
 Secretary, F. H. Shelton.
 Treasurer, F. H. Shelton.
 Purchasing agent and supt., David Buck.
 Process manufacture, Lowe.
 Pop. dist. supplied, 8,000. No. meters, 925.
 Miles of mains, approximate, 8.5.
 Price gas, 1903: Light and Fuel, gross \$1.35; net \$1.25.
 Annual output, approx., 13,000,000 c. f.
 Candle-power, 18 to 20.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 665.
 Supplies Coatesville.

THE WELSBACH STREET LIGHTING COMPANY OF AMERICA can furnish lanterns and fixtures for every possible contingency that may occur. See advertisement, page xx.

Columbia Gas Co., Columbia.

Capital stock, \$100,000.
 Bonds outstanding, \$7,000; interest, 5 p. c.
 President, James A. Meyers.
 Secretary, Joseph Janson.
 Treasurer, Joseph Janson.
 Superintendent, A. H. Meyers.
 Process manufacture, Lowe.
 Pop. dist. supplied, 13,000. No. meters, 700.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$2.50; net \$2.
 Fuel, gross \$1.56; net \$1.25.
 Annual output, approx., 6,525,800 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 27.5 p. c.
 Lowest pressure for gas stoves, 2.2 in.

Connellsville and New Haven Gas and Water Co., Connellsville.

Capital stock, \$25,000.
 President, W. D. Kuhn.
 Secretary, C. W. Scheck.
 Treasurer, L. L. McClelland.
 Purchasing agent, H. F. Bernard.
 Superintendent, W. A. Bishop.
 Process manufacture, McKay-Critchlow.
 Population, 8,000. No. meters, 200.
 Price gas, 1903: Light, \$1.50 to \$1.12.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 1.5 in.
 Supplies Connellsville.

Conshohocken Gas Light Co., Conshohocken.

Capital stock, \$75,000.
 President, A. Loudon Snowden.
 Sec'y and treas., Frank B. Ball.
 Superintendent, M. B. Feldmann.
 Process manufacture, Lowe.
 Pop. dist. supplied, 3,500. No. meters, 476.
 Miles of mains, approximate, 5.
 Price gas, 1903, net: Light, \$1.80; Fuel, \$1.25.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 38 p. c.
 Lowest pressure for gas stoves, 2.6 in.
 Gas stoves in use, 202.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Conshohocken Electric Light and Power Co.)

Arc system, T. H., Ft. Wayne, 90 (2,000 c. p.) arcs capacity.
 Incand. system, Gen. Elec., Westinghouse, 2,500 lamps capacity.
 Power generators, 150 kw. capacity.
 No. public arcs, 52; hours lighted, 4,000.
 No. public incandescents, 57.
 Price arc, Public, per year, \$75.
 Price incand., Public, per year, 16 c. p., \$15.
 Price arc, Commercial, per week, \$1.17.
 Price incand., Commercial, per kw-h., 20c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.55.

Standard Gas Co., Danville.

Capital stock, \$75,000.
 President, Wm. D. Boyer.
 Secretary, V. Grant Pelton.

Treasurer, J. B. Russell.
 Purchasing agent, Geo. M. West.
 Superintendent, Geo. M. West.
 Process manufacture, Coal.
 Pop. dist. supplied, 8,000. No. meters, 460.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, \$2. Fuel, \$1.25.
 Annual output, approx., 5,300,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 175.
 Supplies Danville.

ELECTRICAL DEPARTMENT.

(Operated as the Standard Electric Light Co. Managed but not owned by the gas company.)

Arc system, Ft. Wayne, Am., 225 (2,000 c. p.) arcs capacity.
 Incand. system, Ft. Wayne, West'se, Jenney, 2,500 lamps capacity.
 No. public arcs, 68; lighted 4,000 hours.
 No. public incand., (25 c. p.) 34.
 Price arc, Public, per year, \$72 to \$96.
 Price incand., Public, per year, \$15.
 Price arc, Commercial, per month, till 11 P. M., \$6.50; all night, \$8.
 Price incand., Com'l, per kw., 16c. to 10c.
 Power used, Steam.
 Cost boiler coal per ton, \$2.75.

Suburban Gas Co., of Philadelphia, Darby.

(See Chester.)

Downingtown Gas Co., Downingtown.

Capital stock, \$30,000.
 Bonds, \$28,000; due, 1932; interest, 5 p. c.
 President, H. C. Case.
 Secretary, F. J. McGraw.
 Treasurer, F. J. McGraw.
 Pur. agent and supt., F. J. McGraw.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 3,000. No. meters, 295.
 Miles of mains, approximate, 4.75.
 Price gas, 1903: Gross \$1.35; net \$1.25.
 Annual output, approximate, 5,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 189; heaters, 23.
 Towns supplied: Downingtown and East Downingtown.

Doylestown Gas Co., Doylestown.

Capital stock, \$20,000; annual div., 5 p. c.
 Bonds, \$15,000; due 1923; interest, 4 p. c.
 President, Hugh B. Eastburn.
 Secretary, S. Z. Freed.
 Treasurer, John Yardley.
 Purchasing agent, John Yardley.
 Superintendent, Peter O'Neil.
 Process manufacture, Lowe.
 Pop. dist. supplied, 3,500. No. meters, 278.
 Miles of mains, approximate, 3.5.
 Price gas, 1903: Light and Fuel, net \$1.75.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 50 p. c.

"The fact that the number of lamps in Worcester has been increased and the contract recommended by a unanimous vote of the City Council, is perhaps a sufficient answer to the inquiry if the service is satisfactory to the citizens of Worcester."

See advertisement, page xx.

HENRY A. KNIGHT, Superintendent of Street Lights.

Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 150.
Supplies Doylestown.

Easton Gas and Electric Co., Easton.

(Controls Easton Fuel Gas Co., Easton Gas Co. and Easton Power Co.)
Capital stock, \$2,000,000.
Bonds, \$1,500,000; due 1953; interest 5 p. c.
President, Chester Snyder.
Vice-pres. and gen'l mgr., A. B. Beadle.
Secretary and treas., B. F. Cresson.
Superintendent gas dep't., E. G. Holzer.
Supt. electric dep't., M. A. Maxwell.
Process manuf., Lowe.
Pop. dist. supplied, 50,000. No. meters, 3,456.
Miles of mains, approximate, 42.
Price gas, Light and Fuel, gross \$1.35; net \$1.25.
Annual output, approx., 50,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure, 2 in.
Gas stoves in use, 1,600.
Supplies Easton, Palmer Township, Pa., and Phillipsburg, N. J.

ELECTRICAL DEPARTMENT.

(Operated under name of Easton Power Co.)
Arc system, West'se and Edison, 305 (1,200 c.p.) arcs capacity.
Incandescent system, West'se and Edison, 15,000 lamps capacity.
Power generators, 1,500 kw. capacity.
No. public arcs, 105; hours lighted, 4,000.
Price arc, public, per year, \$65.
Price arc and incand., Commercial, 1, per kw., gross, 14c.; discounts, sliding scale.
Power used, Steam, Water, Gas Engine.
Cost boiler coal per ton, \$3.

Ephrata Gas Co., Ephrata.

(Expect to build summer of 1904. General office, Pennsylvania Gas Imp. Co., Philadelphia, Pa.)
Capital stock, \$50,000.
President, H. T. Duke.
Secretary, Charles L. Scott.
Treasurer, Charles L. Scott.
Superintendent, V. W. Duke.
Process manufacture, Lowe.

Erie Gas Co., Erie.

Capital stock, \$350,000.
Bonds, \$50,000; due 1921 interest, 5 p. c.
President, N. L. Moore.
Sec'y and treas., Paul Mueller.
Purchasing agent, Paul Mueller.
Superintendent, W. J. Hill.
Process manufacture, Coal.
Pop. dist. supplied, 60,000. No. meters, 884.
Miles of mains, approximate, 59.
Price gas, 1903: Light, gross \$1.10; net \$1. Fuel, gross \$1; net 80c.
No. public Welsbach lamps, 419.
Consumption per burner per hour, 3 c. f.
Contract includes repairs, care, lighting and extinguishing.
Lighted all and every night, 4,000 hours.
Annual output, approx., 40,000,000 c. f.
Candle-power, 20.

Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 1.8 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
Incand. system, West'se, 10,500 lamps capac.
Power generators, 525 kw. capacity.
Price arc Com'l per month, \$4.75.
Per kw. gross, 5c. and 10c.; disc. 5 p. c.
Power used Steam.
Cost boiler coal per ton, \$2.10.

North Penn Gas Co., Fort Washington.

(Main office Bourse Building, Philadelphia.)
Capital stock, \$300,000.
Bonds, \$70,000; due 1936; interest 5 p. c.
President, Francis K. Smartley.
Secretary, Emory P. Day.
Treasurer, L. L. Mann.
Pur. agent, Penn. Gas Imp. Co., Phila.
Process manufacture, Lowe.
Pop. dist. supplied, 40,000.
Miles of mains, approximate, 33.
Price gas: Light, gross \$2; net \$1.50.
Charters and franchises cover Oreland, Fort Washington, Ambler, North Wales, Lansdale, Tilford, Quakertown, Willow Grove, Sellersville, Perkasie, and many small towns along the line.

Franklin Gas Co., Franklin.

(Company re-organized in 1902, but has not yet resumed manufacture of gas.)
Capital stock, \$60,000.
President, Benj. W. Bredin.
Secretary, M. A. Hirsch.
Treasurer, Benj. W. Bredin.
Process manufacture, McKay-Critchlow.
Population, 8,500.
Miles of mains, approximate, 5.

Gettysburg Gas Co., Gettysburg.

Capital stock, \$30,000.
Bonds outstanding, \$5,500; interest, 4 p. c.
President, Chas. S. Duncan.
Secretary, Donald P. McPherson.
Treasurer, Donald P. McPherson.
Superintendent, Allen B. Plank.
Process manufacture, Coal.
Population, 3,500. No. meters, 425.
Miles of mains, approximate, 5.
Price gas, 1903: Light and Fuel, net \$1.75.
Annual output, approx., 5,000,000 c. f.
Candle-power, 16.
Proportion sold for fuel purposes, 22 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 12.
Supplies Gettysburg.

Girardville Gas Co., Girardville.

Capital stock, \$7,500.
Bonds, \$7,900; due 1905; interest, 6 p. c.
President, A. Bordy.
Secretary, John Hendrickson.
Treasurer, E. K. Becker.
Purchasing agent, John Hendrickson.
Superintendent, N. Blass.
Process manufacture, Lowe.
Pop. dist. supplied, 3,666. No. meters, 190.
Miles of mains, approximate, 1.5.

The **Welsbach** STREET LIGHT is now extensively used on many of the principal streets of New York City. See advertisement, page xx.

Price gas, 1903: Light, gross \$2.25; disc., 10 to 35 p. c.
Annual output, approx., 1,400,000 c. f.
Candle-power, 30.
Supplies Girardville.

Greensburg Gas Co., Greensburg.

Capital stock, \$36,000.
President, James K. Clarke.
Secretary, R. A. Fulton Lyon.
Treasurer, George F. Huff.
Purchasing agent, John E. Clarke.
Superintendent, John E. Clarke.
Process manufacture, McKay-Critchlow.
Pop. dist. supplied, 10,000. No. meters, 156.
Miles of mains, approximate, 7.
Price gas, 1903: Gross \$1.40; net \$1.30.
Annual output, approximate, 2,000,000 c. f.
Candle-power, 20.

(Natural gas used for fuel purposes.)

Greenville Gas Co., Greenville.

Capital stock, \$50,000; annual div., 7.5 p. c.
President, E. S. Templeton.
Secretary and treasurer, J. W. Vaughn.
Purchasing agents, Vaughn & Stone.
Superintendent, J. W. Vaughn.
General manager, F. W. Stone.
Process manufacture, Coal.
Pop. dist. supplied, 6,000. No. meters, 800.
Miles of mains, approximate, 12.
Price gas, 1903: Light, gross \$1.10; net \$1.
Fuel, net 60c. to \$1.
Annual output, approximate, 15,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 1.7 in.
Gas stoves in use, about 450.
Supplies Greenville.

Hamburg Gas Co., Hamburg.

(In course of construction; expect to supply gas June 1, 1904.)
Capital stock, 15,000.
President, H. F. Printzenhoff.
Secretary, Wm. O. Heinly.
Treasurer, John R. Wagner.
Superintendent, Wm. H. Miller.
Process manufacture, Lowe-Sutherland.
Pop. dist. supplied, 3,000.
Miles of mains, approximate, 3.
Price gas, 1903, \$1.75.
To supply Hamburg.

Hanover Gas Co., Hanover.

Capital stock, \$75,000.
Bonds, \$70,000; due 1921 interest, 5 p. c.
President, Robert L. Forrest.
Secretary and treasurer, F. H. Shelton.
Purchasing agent, R. Hayes Dutton.
Superintendent, R. Hayes Dutton.
Process manufacture, Lowe.
Pop. dist. supplied, 7,500. No. meters, 925.
Miles of mains, approximate, 9.
Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.40.
Annual output, approximate, 10,000,000 c. f.
Candle-power, 23.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 134 ranges.
Supplies Hanover.

Harrisburg Gas Co. Harrisburg.

(Consolidated with Peoples Gas and Gaseous Fuel Co. and Harrisburg, Suburban Gas Co., of Harrisburg.)

Capital stock, \$1,000,000.
Bonds, \$1,000,000; due 1928; interest, 5 p. c.
President, Samuel T. Bodine.
Secretary, W. F. Douthirt.
Treasurer, Lewis Lillie.
Pur. agent, J. A. Pearson, Philadelphia.
Manager, L. S. Williams.
Process manufacture, Lowe.
Pop. dist. supplied, 50,000. No. meters, 8,263.
Miles of mains, approximate, 49.
Price gas, 1903: Light and Fuel, net \$1.25.
Annual output, approx., 120,362,000 c. f.
Candle-power, 25.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 3,570.
Supplies Harrisburg and Dauphin County.

Hazleton Gas Light Co., Hazleton.

Capital stock, \$120,000.
Bonds outstanding, \$120,000; interest, 5 p. c.
President, E. H. Jones.
Secretary and treasurer, W. P. Billings.
Purchasing agent, W. P. Billings.
Superintendent, J. L. Mayer.
Process manufacture, Lowe.
Pop. dist. supplied, 20,000. No. meters, 570.
Miles of mains, approximate, 6.
Price gas, 1903: Light, gross \$1.50; net \$1.43
Fuel, gross \$1.50; net \$1.25.
Annual output, approx., 10,000,000 c. f.
Candle-power, 24.
Proportion sold for fuel purposes, 33 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 150.

Hollidaysburg Gas Co., Hollidaysburg.

Capital stock, \$15,000.
Bonds outstanding, \$10,000; interest, 5 p. c.
President, H. T. Duke.
Secretary, Chas. L. Scott.
Treasurer, E. D. Hallowell.
Pur. agt. and supt., V. W. Duke.
Process manufacture, Sutherland and Lowe
Pop. dist. supplied, 4,200. No. meters, 300.
Miles of mains, approximate, 5.
Price gas, 1903: Light, gross \$1.75; net \$1.50.
Annual output, approx., 4,500,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 15 p. c.
Cities supplied: Hollidaysburg, Gaystport.

Consolidated Light, Heat and Power Co., Honesdale.

Capital stock, \$55,000.
Bonds, \$51,000.
Superintendent, Henry Richards.
Process manufacture, Lowe.
Pop. dist. supplied, 8,000. No. meters, 500.
Miles of mains, approximate, 6.
Price gas, 1903, net: Light, \$1.75; Fuel, \$1.50.
No. public Welsbach lamps, 650.
Annual output, approx., 6,500,000 c. f.
Candle-power, 22.

The "Candle Power" given by the IMPROVED **Welsbach STREET LIGHT** is more efficient for street illuminations than that obtained by any other means. See advertisement, page xx.

Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 1.5 in.

ELECTRICAL DEPARTMENT.

(No report.)

Huntingdon Gas Co., Huntingdon.

(Absorbed the Huntingdon Electric Light Co.)
Capital stock, \$125,000.
Bonds outstanding, \$125,000.
Process manufacture, Lowe.
Pop. dist. supplied, 5,000. No. meters, 490.
Price gas, 1903: Light, gross \$2.50; net \$2.
Fuel, \$1.50.
Annual output, approx., 5,500,000 c. f.
Candle-power, 18 to 20.
Proportion sold for fuel purposes, 33 p. c.
Lowest pressure for gas stoves, 2.5 in.

ELECTRICAL DEPARTMENT.

(No report.)

Jersey Shore Gas Co., Jersey Shore.

Capital stock, \$10,000; annual div., 6 p. c.
Bonds, \$2,500; due 1905; interest, 5 p. c.
President, Isaac P. Raup.
Secretary, Kimber C. Raup.
Treasurer, Kimber C. Raup.
Purchasing agent, C. R. Raup.
Superintendent, C. R. Raup.
Process manufacture, Patton (oil).
Pop. dist. supplied, 4,000. No. meters, 220.
Miles of mains, approximate, 4.
Price gas, 1903: Light, net \$1.50. Fuel, net \$1.25.
Annual output, approx., 6,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 20 p. c.
Lowest pressure for gas stoves, 1.5 in.
Supplies Jersey Shore and Vilas.

Consumers Gas Co., Johnstown.

Capital stock, \$560,000.
President, C. S. Price.
Secretary, Frank Howard.
Treasurer, John D. Roberts.
Pur. agt., and supt., W. H. C. Ramsey.
Proc. manf., Coal and Granger-Collins.
Pop. dist. supplied, 40,000. No. meters, 2,300.
Miles of mains, approximate, 17.
Price gas, 1903: Light, gross \$1.40; net \$1.20.
Fuel, gross \$1.40; net \$1.
No. public lamps, 13. Price per 1,000, \$1.20.
Price does not include repairs, care, lighting and extinguishing.
Lighted by moon scale.
Annual output, approx., 77,000,000 c. f.
Candle-power, 19.
Proportion sold for fuel purposes, 15 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 700.

ELECTRICAL DEPARTMENT.

(In course of construction. Will be operated as Citizens' Light, Heat and Power Co. Same officers as gas company but separate corporation.)

West Side Gas Co., Kingston.

(Gas and electric companies owned by Wyoming Light and Power Co.)

Capital stock, \$50,000.
President, Bernard Long.
Secretary, Geo. H. Butler.
Treasurer, A. A. Sterling.
Superintendent, H. D. Hayden.
Process manf., Merrifield, Westcott, Pearson.
Pop. dist. supplied, 15,000. No. meters, 512.
Miles of mains, approximate, 12.
Price gas, 1903: Light and Fuel, gross, \$1.50; net \$1.35.
Annual output, approx., 10,000,000 c. f.
Candle-power, 26.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 75.
Towns supplied: Kingston, Edwardsville, Doranceton, Luzerne, Forty Fort.

ELECTRICAL DEPARTMENT.

(Business conducted under name of West Side Electric Light Co.)

Arc syst., Excelsior, 130 (2,000 c. p.) arcs capac.
Incand. system, Stanley, Gen. Elec. A. C., 3,300 lamps capacity.
No. pub. arcs, 130 (2,000 c. p.) lighted 4,000 hrs.
Price arc, Public, per year, \$70 and \$75.
Price arc, Com'l, per mo., \$6.
Price incand., Com'l, per mo., 16 c. p., 20c. to 75c.
Price per kw., gross 10c.; disc. 10 p. c.
Power used, Steam.

Lancaster Gas Light and Fuel Co., Lancaster.

Capital stock, \$325,000.
Bonds, \$300,000; due 1925; interest, 5 p. c.
Vice-President, Chas. B. Keller.
Secretary, O. M. Hoffman.
Treasurer, O. M. Hoffman.
Purchasing agent, C. Edgar Titzel.
Superintendent, C. Edger Titzel.
Process manufacture, Lowe.
Pop. dist. supplied, 45,000. No. meters, 6,577.
Price gas, 1903: Light, gross \$2; net \$1.50.
Fuel, \$1.
No. public Welsbach lamps, 277.
Consumption per burner per hour, 4 c. f.
Contract includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 130,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Edison Electric Illuminating Co.)

Arc system, Wood, 500 (2,000 c. p.) arcs capac.
Incand. system, Gen. Elec., West'se, 25,000 lamps capacity.
No. public arcs (2,000 c. p.), 321; lighted all night.
Price arc, Public, per year, \$93.50.
Price arcs and incand., Commercial, per kw-h. gross 12.5c.; disc. 10 p. c.; power, gross 5c.
Power used, Steam.
Cost boiler fuel per ton, \$2.45.

Extract from report of Brooklyn Parks:

"The **Welsbach** Lights are better adapted for Park Roads, being closer to the ground and free from shadows, and giving a clear, straight, white light." See advertisement, page xx.

Latrobe Gas Co., Latrobe.

Capital stock, \$30,000.
 Bonds auth., \$60,000; due 1931; int., 5 p. c.
 President, T. L. Hodge.
 Secretary, P. W. Janeway.
 Treasurer, P. W. Janeway.
 Supt. and pur. agt., James T. Hughes.
 Process manufacture, Lowe.
 Pop. dist. supplied, 2,500. No. meters, 286.
 Price gas, 1903: Light, net 1.50 to \$1. Fuel,
 \$1.25 to \$1.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 15 p. c.

Lebanon Gas Co., Lebanon.

Capital stock, \$80,000; annual div., 8 p. c.
 President, L. E. Weimer.
 Secretary, John W. Mish.
 Treasurer, John W. Mish.
 Purchasing agent, John W. Mish.
 Superintendent, Wm. H. Merritt.
 Process manufacture, Coal.
 Pop. dist. supplied, 18,000. No. meters, 850.
 Miles of mains, approximate, 11.5.
 Price gas, 1903: Under 4,000 c. f., \$1.70; over
 4,000 c. f., \$1.50.
 No. public Welsbach lamps, 16.
 Consumption per burner per hour, 5 c. f.
 Contract includes repairs.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 22,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 400.
 Supplies Lebanon.

Lewisburg Gas Co., Lewisburg.

Capital stock, \$20,000.
 President, D. B. Miller.
 Secretary and treas., W. Scott Halfpenny.
 Superintendent, J. F. Duncan.

Lewistown Gas Light Co., Lewistown.

Capital stock, \$22,000.
 Bonds, \$10,000; due 1917; interest, 5 p. c.
 President, A. Reed Hays.
 Secretary, S. H. Berryhill.
 Treasurer, E. H. Davis.
 Purchasing agent, E. F. McCabe.
 Superintendent, E. F. McCabe.
 Process manufacture, Lowe.
 Pop. dist. supplied, 7,000. No. meters, 300.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$2; net \$1.90.
 Fuel, gross and net \$1.25.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 4 in.
 Gas stoves in use, 100.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Lewis-
 town Electric Light Co.)

Incand. syst., alt. current, 4,000 lamps cap.
 No. public incand., 87; hours lighted, 4,000.
 Price incand., Public, per year, 25 c. p., \$20.

Price incand., Com'l, per kw-h., 12c.; disc.
 10 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.25.

Lock Haven Gas Co., Lock Haven.

Capital stock, \$50,000.
 President, Samuel Christ.
 Secretary, W. S. Harris.
 Treasurer, W. S. Harris.
 Purchasing agent, W. S. Harris.
 Superintendent, David McClelland.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,500. No. meters, 275.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, gross \$2; net \$1.75.
 Fuel, net \$1.50.
 Annual output, approx., 3,500,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 50.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Lock
 Haven Electric Light and Power Co.)

Arc system, Gen. Elec., Brush, 150 (2,000 c. p.)
 arcs capacity.
 Incand. system, Stanley, 7,000 lamps capac
 No. public arcs, 76; hours lighted, 4,000.
 Price arc, Public, per year, \$72.
 Price arc, Commercial, per month, \$5.
 Price incand., Commercial, per month, 16
 c. p., 50c.; per kw-h, 10c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.25.

Mahanoy City Gas Co., Mahanoy City.

Capital stock, \$30,000.
 Bonds outstanding, \$3,000; interest, 5 p. c.
 President, Ed. S. Silliman.
 Secretary, A. B. Wagner.
 Treasurer, A. B. Wagner.
 Purchasing agent, Wallace Haldeman.
 Superintendent, Wallace Haldeman.
 Process manufacture, Coal (naphtha).
 Pop. dist. supplied, 13,800. No. meters, 250.
 Miles of mains, approximate, 3.
 Price gas, 1903: Light, gross \$2.20; net \$1.98.
 Fuel, gross and net \$1.50.
 Annual output, approximate, 5,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 12 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 10.

Mauch Chunk Gas Co., Mauch Chunk.

Capital stock, \$45,000.
 President, A. P. Blakslee.
 Vice-president and gen'l mgr., A. E. Forstall.
 Secretary, S. S. Smith.
 Treasurer, S. S. Smith.
 Purchasing agent and supt., L. N. Lincoln.
 Process manufacture, Lowe.
 Pop. dist. supplied, 4,000. No. meters, 200.
 Miles of mains, approximate, 1.5.
 Price gas, 1903: Light and Fuel, gross \$2.50;
 net \$2.
 Annual output, approx., 2,500,000 c. f.

Beware of infringements and imitations. **THE WELSBACH STREET LIGHTING COMPANY OF AMERICA** is the sole proprietor of **THE WELSBACH SYSTEM OF STREET LIGHTING.** See advertisement, page xx.

Candle-power, 22.
Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 8.

McKeesport Gas Improvement Co., McKeesport.

(Controlled by lease by the Semet Solvay Co., of Syracuse, N. Y.)
Purchasing agent, Walter D. Serena.
Superintendent, W. C. Neemes.
Proc. manf., Otto-Hoffmann Coke Oven and Lowe.
Pop. dist. supplied, 45,000. No. meters, 500.
Miles of mains, approximate, 10.
Price gas, 1903: Light and Fuel, gross 20c; net 18c.
No. Public Welsbach lamps, 4; Lighted 6 P. M. to 6 A. M.
Annual output, approx., 35,000,000 c. f.
Candle-power, 16.5.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 3 in.
Supplies McKeesport and Glassport.

Meadville Gas and Water Co., Meadville.

Capital stock, \$100,000.
President, S. B. Dick.
Secretary, J. E. Reynolds.
Treasurer, J. E. Reynolds.
Purchasing agent, Chas. H. Yonts.
Superintendent, L. L. Lord, Co.
Process manufacture, McKay-Critchlow.
Pop. dist. supplied, 10,000.
Miles of mains, approximate, 10.
Candle-power, 20.
Lowest pressure for gas stoves, 1.5 in.
(Natural gas competition.)

Gas, Heat and Power Co., of Mechanicsburg.

Capital stock, auth., \$50,000; issued, \$29,575.
President, E. A. Burnett.
Secretary, E. S. Weber.
Treas. and gen. mgr. B. De Schweinitz.
Superintendent, E. S. Weber.
Process manufacture, Janeway and Logan.
Pop. dist. supplied, 5,000. No. meters, 350.
Miles of mains, approximate, 3.5.
Price gas, 1903: Light, \$1.50. Fuel, \$1.20; disc., 5 p. c.
Annual output, approx., 4,500,000 c. f.
Candle-power, 24.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 183.
Supplies Mechanicsburg.

Suburban Gas Co., of Philadelphia, Media.

(See Chester.)

Middletown Gas Light Co., Middletown.

Capital stock, \$25,000.
Bonds, \$65,000; due 1925; interest 5 p. c.
President, Avery Chilton Sickel.
Sec'y and treas., J. M. Rudy.
Superintendent, Jacob E. Shibley.
Process manufacture, Coal.
Pop. dist. supplied, 9,000. No. meters, 426.
Miles of mains, approximate, 9.
Price gas, 1903: Light, gross \$1.60; net \$1.50.

No. public Welsbach lamps, 15.
Annual output, approx., 7,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 275.

Milton Gas Co., Milton.

Capital stock, \$30,000; annual div., 9 p. c.
President, S. P. Brown.
Secretary and treasurer, Geo. C. Stahl.
Purchasing agent, Geo. C. Stahl.
Superintendent, James R. Chapin.
Process manufacture, Coal.
Pop. dist. supplied, 7,000. No. meters, 575.
Miles of mains, approximate, 6.5.
Price gas, 1903: Light, gross \$2; net \$1.60.
Fuel, gross \$1.25; net \$1.
No. pub. Welsbach lamps, 4. Lighted 10 hrs.
Contract includes repairs, care, lighting and extinguishing.
Annual output, approx., 9,000,000 c. f.
Candle-power, 18.
Proportion sold for fuel purposes, 30 p. c.
Lowest pressure for gas stoves, 1.8 in.
Gas stoves in use, 100.
Supplies Milton.

Monongahela City Gas Co., Monongahela.

(Manufactured gas discontinued. See Natural Gas Dept.)

Mount Carmel Gas Light Co., Mt. Carmel.

(Plant in operation since November, 1902.)
Capital stock, \$50,000.
President, J. E. Bastress.
Vice-president, Robert Muir.
Secretary, W. S. Thirlwell.
Treasurer, J. P. Helfenstein.
Pur. agt and supt., F. B. Fisler.
Process manufacture, Lowe (improved).
Pop. dist. supplied, 17,000. No. meters, 201.
Miles of mains, approximate, 3.5.
Price gas, 1903: Light, gross and net \$1.50.
Fuel, \$1.25.
Annual output, approx., 2,500,000 c. f.
Candle-power, 25.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 80.
Supplies Mount Carmel and adjacent territory.

The Solar Gas Light Co., Mount Joy.

(Successor to Mount Joy Gas Co.)
Capital stock, \$10,000.
President, Samuel Kurtz.
Secretary and treas., Norman K. Grissinger.
Superintendent, Monroe Frank.
Process manufacture, Lowe.
Pop. dist. supplied, 2,000. No. meters, 119.
Miles of mains, approximate, 3.
Price gas, 1903: gross \$2; net \$1.50 to \$1.25.
Annual output, approx., 2,750,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 1.5 in.
Gas stoves in use, 63.
Supplies Mount Joy.

Extract from report of the Chief Engineer of Fairmount Park, Philadelphia, in regard to Welsbach Park Lights: "The **Welsbach** Lights with which you are now lighting the great pleasure ground of the city of Philadelphia are giving great satisfaction, adding greatly to the attractiveness of the Park."

See advertisement, page xx.

Nanticoke Gas Co., Nanticoke.

Capital stock, \$45,000.
 President, M. W. Morris.
 Secretary, W. D. Beers.
 Treas. and pur. agt., Geo. W. Beers.
 Superintendent, Geo. W. Beers.
 Process manufacture, Lowe.
 Pop. dist. supplied, 14,000. No. meters, 300.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, gross \$1.50; net \$1.25.
 Annual output, approx., 3,500,000 c. f.
 Candle-power, 24.

ELECTRICAL DEPARTMENT.

(Operated under name of Peoples Electric Light, Heat and Power Co.)

Arc system, d. c., 205 (2,000 c. p.) arcs capac.
 Incand. system, alt., 6,000 lamps capacity.
 No. public arcs, 128; lighted all night.
 No. public incand., 36; lighted all night.
 Price arc, Public, per year, \$65.
 Price arc, Commercial, per mo., \$4.50 to \$5.
 Price incand., Public, 16 c.p. per year, \$20.
 Price incand., Com'l, 16 c.p., per mo., \$1.30.
 Power used, Steam.
 Cost of boiler coal per ton, 70c.

Nazareth Illuminating Gas Co., Nazareth.

(Owned and controlled by the Nazareth Electric Light and Power Co.)

Capital stock, \$10,000.
 President, Conrad Miller.
 Vice-pres. and gen. mgr., John A. Miller.
 Treasurer, L. C. Williams.
 Secretary, Wm. M. Bennett.
 Purchasing agent, John A. Miller.
 Auditor, W. M. Bennett.
 Process manufacture, Lowe.
 Pop. dist. supplied, 3,500. No. meters, 200.
 Miles of main, approx., 5.
 Price gas, 1903: Light, gross \$1.75; net \$1.50;
 Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 3,800,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 70 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 100.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Nazareth Electric Light and Power Co.)

Arc system, T. H., 35 (2,000 c. p.); 40 (1,200 c. p.) arcs capacity.
 Incand. system, G. E., 3,600 lamps capacity.
 Power generators, 180 kw. capacity.
 No. public arcs 15 (2,000 c. p.); 20 (1,200 c. p.); lighted, 2,555 hours.
 Price arc, Public, per year, \$65.
 Price arc, Com'l, per month, \$10.
 Price incand., Com'l, per month, 70c.; less 10 p. c.; per kw. gross 15 c.; disc. 20 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$2.75.

Lawrence Gas Co., New Castle.

Capital stock, \$100,000.
 Bonds, \$50,000; due 1909; interest, 6 p. c.
 President, M. E. M. Caskey.
 Secretary, J. E. Blackwell.

Treasurer, F. C. McGonigle.
 Purchasing agent, John Wolff.
 Auditor, W. T. Burns.
 Superintendent, M. E. M. Caskey.
 Process manufacture, McKay-Critchlow.
 Pop. dist. supplied, 30,000. No. meters, 150.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light and Fuel, gross \$1.25; net \$1.
 Annual output, approx., 3,500,000 c. f.
 Candle-power, 20.
 (Natural gas competition.)

Gas Co. of Montgomery County, Norristown.

Capital stock, \$250,000.
 Bonds, \$30,000; due 1914; interest, 5 p. c.
 President, Jno. D. McIlhenny.
 Secretary, Charles E. Fox.
 Treasurer, F. S. McIlhenny.
 Superintendent, H. H. Ganser.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 28,000. No. meters, 2,796.
 Miles of mains, approximate, 24.
 Price gas, 1903: Light and Fuel, gross \$1.30; net \$1.20.
 No. public Welsbach lamps, 43.
 Consumption per burner per hour, 3.5 c. f.
 No. hours lamp is lighted per year, 3,987.
 Annual output, approx., 59,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,850.
 Cities supplied: Norristown and Bridgeport.

ELECTRICAL DEPARTMENT.

(Separate company.)

Equitable Illuminating Gas Light Co., Philadelphia.

(Operating company for the United Gas Improvement Co. under its lease of the Philadelphia Gas Works.)

Capital stock, pref. \$3,125,000; com. \$3,125,000.
 Bonds, \$7,500,000; due 1928; interest, 5 p. c.
 President, James Ball.
 Secretary, F. H. MacMorris.
 Treasurer, W. A. McEwen.
 Purchasing agent, J. A. Pearson.
 Assistant treasurer, Fred. S. Whittaker.

Northern Liberties Gas Co., Philadelphia.

(Operated by the U. G. I. Co.)

Capital stock, \$475,000.
 President, Alexander M. Fox.
 Secretary, W. P. Fodell.
 Treasurer, W. P. Fodell.
 Purchasing agent, J. A. Pearson.
 Superintendent, John W. Smith.
 Process manufacture, Coal.
 Pop. dist. supplied, 45,000. No. meters, 4,204.
 Miles of mains, approximate, 20.
 Price gas, 1903: Light and Fuel, gross and net, \$1.
 No. public lamps, 74. Price per year, \$20.20.
 Consumption per burner hour, 6 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 159,935,000 c. f.
 Candle-power, 17.

The perfection of the service rendered where the IMPROVED **Welsbach STREET LIGHT** is in use has been particularly noted. See advertisement, page xx.

Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 664.
Cities supplied: Northern Liberties District
of Philadelphia, Pa.

Philadelphia Gas Works, Philadelphia.

(Operated by the United Gas Improvement Co.)

Gen. supt., Walton Clark.
Treasurer, Lewis Lillie.
Cashier, W. H. Marshall.
Purchasing agent, J. A. Pearson.
Engineer of works, W. H. Gartley.
Engineer of distribution, W. J. Serrill.
General agent, Thos. L. George.
Assistant general agent, G. W. Curran.
Process manufacture, Lowe and Coal.
Pop. dist. supplied, 1,300,000.
No. meters, 222,595.
Miles of mains, approximate, 1,300.
Price gas, 1903: Light and Fuel, gross and net \$1.
No. public lamps, 21,044. Free to city.
Consumption per burner per hour, 5.5 c. f.
No. hours lamp is lighted per year, 4,483.
Annual output, approx., 8,270,000,000 c. f.
Candle-power, 22.
Lowest pressure for gas stoves, 2.3 in.

Consolidated Schuylkill Gas Co., Phoenixville.

(Owned and operated by Phoenix Gas and Electric Co.)

Capital stock, \$150,000.
Bonds, \$150,000; due 1929; interest, 5 p. c.
President, John H. Mansur.
Secretary, F. H. Shelton.
Treasurer, F. H. Shelton.
Pur. agent and manager, J. W. Gillette.
Superintendent, E. H. Grandeur.
Process manufacture, Lowe.
Pop. dist. supplied, 16,000. No. meters, 1,535.
Miles of mains, approximate, 16.
Price gas, 1903: Light, gross \$1.60; net \$1.50.
Fuel, gross \$1.35; net \$1.25.
Annual output, approx., 24,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 947.
Supplies Phoenixville, Royersford and Spring City.

Consolidated Gas Co. of the City of Pittsburg, Pittsburg.

(Data below includes Allegheny Illuminating Co. All gas made in Pittsburg.)

Capital stock, authorized, pref. \$2,500,000;
Issued, pref. \$2,000,000; com. \$4,000,000.
Bonds, \$5,000,000; due 1948; int., 5 p. c.
President, James H. Reed.
Vice-president, James D. Callery.
Secretary, W. B. Carson.
Treasurer, C. J. Braun, Jr.
Gen. mgr. gas dept., Robert Young.
Gen. Supt., J. K. Beatty.
Auditor, C. S. Mitchell.
Supt. gas dept., Geo. W. Whitfield.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 320,000. No. meters, 19,187.
Miles of mains, approximate, 330.

Price gas, 1903: Light, gross \$1.20; net \$1.
Annual output, approx., 636,691,000 c. f.
Candle-power, 22.
Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Business conducted under the name of Allegheny County Light Co.)

President, J. D. Callery.
Gen'l. superintendent, Chas. E. Warner.
Arc system, 4,000 (2,000 c. p.) arcs capacity.
Incand. system, 300,000 lamps capacity.
No. public arcs, 2,900. Price per year, \$96.
Price arc, Commercial, per month, \$12.
Price incand., Commercial, per kw., 20c., disc., 30 p. c.
Power used, Steam.
Cost boiler coal per ton, \$1.25.

South Side Gas Co., Pittsburg.

Capital stock, \$500,000.
Bonds, \$50,000; due 1913; interest, 5 p. c.
President, J. H. Reed.
Secretary, W. B. Carson.
Treasurer, C. J. Brown, Jr.
Pur. agent, Capt. Matthew Bigger.
Gen'l manager, Robert Young.
Gas supplied from works of the Consolidated Company of Pittsburg.
Pop. dist. supplied, 40,000. No. meters, 515.
Miles of mains, approximate, 28.
Price gas, 1903: Light, gross \$1.20; net \$1.
No. pub. lamps, 12. Price per year, \$12.50.
Consumption per burner per hour, 6 c. f.
Price includes nothing but the gas.
Annual output, approx., 13,000,000 c. f.
Candle-power, 20.
(Natural gas supplied for fuel.)

Peoples Light Co., Pittston.

Capital stock, \$150,000.
Bonds, \$150,000; due 1929; interest, 5 p. c.
President, Liddon Flick.
Secretary, R. J. Flick.
Treasurer, R. J. Flick.
Superintendent, Thos. Henshall.
Process manufacture, Lowe.
Pop. dist. supplied, 12,000. No. meters (1902), 1,000.
Miles of mains, approximate, 11.
Price gas, 1903: Light, gross \$1.50; net \$1.35.
Fuel, \$1.25.
Annual output, approx., 15,674,500 c. f.
Candle-power, 28.
Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 2.3 in.
Gas stoves in use (1902), 175.
Supplies Pittston and West Pittston.

West Electric and Gas Co., Plymouth.

Capital stock, \$150,000.
President, Ambrose West.
Secretary, R. R. Van Horn.
Treasurer, Albert West.
Purchasing agent, Ambrose West.
Superintendent, A. J. Llewellyn.
Process manufacture, Lowe.
Pop. dist. supplied, 14,000. No. meters, 425.
Miles of mains, approximate, 6.

Have you seen **THE WELSBACH SYSTEM OF STREET LIGHTING** in operation? We invite examination and comparison. See advertisement, page xx.

Price gas, 1903: Light and Fuel, gross \$1.50.
 Annual output, approx., 5,394,000 c. f.
 Candle-power, 24.
 Lowest pressure for gas stoves, 2.5 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc systems, G. E., 500 kw. capac., Stanley, 110 kw. capac.

Data below for Plymouth.

No. public arcs, 61; hours lighted, 3,650.

No. public incandescents, 12.

Price arc, Public, per year, \$75.

Price arc, Commercial, per month, \$5.

Price incand., Public, per year, 50 c. p., \$30.

Power used, Steam.

Cost boiler fuel per ton, \$1.25.

Company supplies Plymouth, Plymouth Township and Nanticoke.

Peoples Gas Co. of Pottstown, Pottstown.

President, Francis S. McIlhenny.

Secretary, Jacob S. Bahr.

Treasurer, John D. McIlhenny.

Superintendent, S. L. Cramer.

Process manufacture, Lowe.

Pop. dist. supplied, 15,000. No. meters, 750.

Price gas, 1903: Light, \$1.50. Power and Fuel, \$1.25.

Annual output, approx., 10,000,000 c. f.

Candle-power, 24.

Pottsville Gas Co., Pottsville.

Capital stock, \$200,000.

President, F. H. Treat.

Secretary, J. W. Pittock.

Treasurer, C. P. King.

Gen'l mgr. and pur. agt., F. B. Aldrich.

Superintendent, O. W. Crawshaw.

Process manufacture, Lowe.

Pop. dist. supplied, 17,000. No. meters, 1,800.

Miles of mains, approximate, 20.

Price gas, 1903: Light, \$1.50. Fuel, \$1.25.

Annual output, approx., 28,000,000 c. f.

Candle-power, 21.

Proportion sold for fuel purposes, 25 p. c.

Lowest pressure for gas stoves, 1.8 in.

Gas stoves in use, 450.

Supplies, Pottsville, Port Carbon and Yorkville.

Consumers Gas Co., Reading.

Capital stock, \$500,000.

President, L. T. Custer.

Secretary, Lewis Lillie.

Treasurer, Lewis Lillie.

Pur. agent, J. A. Pearson.

Superintendent, John H. Keppelman.

Process manufacture, Lowe.

Pop. dist. supplied, 78,961. No. meters, 10,088.

Miles of mains, approximate, 59.

Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.35.

No. public Welsbach lamps, 546.

Consumption per burner per hour, 4 c. f.

Contract includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 4,000.

Annual output, approx., 171,869,000 c. f.

Candle-power, 25.

Proportion sold for fuel purposes, 40 p. c.

Lowest pressure for gas stoves, 2.8 in.

Gas stoves in use, 4,722.

Supplies Reading.

Reading Gas Co., Reading.

(Leased to Consumers Gas Co. of Reading.)

Capital stock, \$300,000; annual div., 12 p. c.

President, Wm. R. McIlvain.

Secretary and treasurer, John W. Reily.

Renova Illuminating Gas Supply Co., Renova.

(Works under construction.)

President, E. T. Swain.

Treasurer, Charles L. Geary.

Chairman, Ex. Com., J. B. Bergstresser.

Consolidated Schuylkill Gas Co., Royersford.

(See Phoenixville.)

Schuylkill Haven Gas and Water Co., Schuylkill Haven.

Capital stock, \$100,000.

Bonds outstanding, \$100,000 for both gas and water-works; due, 1904, 1916; interest, 5 and 6 p. c.

President, Frederick H. Treat.

Secretary, John W. Pittock.

Treasurer, John W. Pittock.

Manager and pur. agent, F. B. Aldrich.

Superintendent, Wm. H. Mellon.

Process manufacture, Lowe.

Pop. dist. supplied, 5,500. No. meters 400.

Miles of mains, approximate, 7.

Price gas, 1903: Light, gross and net \$1.50. Fuel, \$1.25.

Annual output, approx., 4,000,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 33 p. c.

Lowest pressure for gas stoves, 1.5 in.

Gas stoves in use, 170.

Supplies Schuylkill Haven and Cressona.

(Operated in connection with water works.)

Scranton Gas and Water Co., Scranton.

President, W. W. Scranton.

Asst. president, Worthington Scranton.

Sec'y and treas., G. B. Hand.

Superintendent, Robert Reaves.

Process manufacture, Lowe.

Pop. dist. supplied, 115,000.

Price gas, 1903: Light, gross \$1; net 90 to 95c.

Fuel, gross, \$1; net 80 to 90c.

Candle-power, 28.

Sewickley Gas Co., Sewickley.

Capital stock, \$37,100.

President, H. B. Beatty.

Secretary, C. G. Seibert.

Purchasing agent, H. S. Beatty.

Supt. gas plant, Geo. M. Kunkle.

Process manufacture, Lowe, Critchlow.

Pop. dist. supplied, 4,500. No. meters, 100.

Miles of mains, approximate, 6.

Price gas, 1903: Light, gross \$1.20; net \$1

Fuel, natural gas, 25c.

Annual output, approx., 2,000,000 c. f.

Candle-power, 20.

Owing to the shape of the Welsbach Mantle, the illumination of the street from an IMPROVED **Welsbach STREET LIGHT** is equal in every direction. This is not the case with other methods of lighting. See advertisement, page xx.

ELECTRICAL DEPARTMENT.

(Operates as the Sewickley Electric Co.)

Supt. electric plant, J. M. Uptegraff.
Incand. system, West'se, 240 kw. capacity.
Public lamps, Nernst 6-glower. Price per year, \$60.

Price incand. Com'l, per kw. gross 20c.; disc., 25 p. c.

Power used, Gas Engines.

Cost natural gas boiler fuel, 12c. per 1,000.

Shamokin Gas Light Co., Shamokin.

Capital stock, \$25,000.

President, W. C. McConnell.

Secretary, Geo. C. Grueber.

Treasurer, John Mullen.

Purchasing agent, W. C. McConnell.

Proc. manf., Janeway and Logan (oil).

Pop. dist. supplied, 20,000. No. meters, 175.

Miles of mains, approximate, 4.

Price gas, 1903: Light, from \$5 for under 1,000 c. f. to \$1.50 for over 2,000 c. f. Fuel, same scale, \$3 to \$1.10.

Annual output, approx., 2,750,000 c. f.

Candle-power, 28.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 2.4 in.

Sharon Gas and Water Co., Sharon.

Capital stock, \$52,500.

President, H. W. Whipple.

Secretary, M. A. Norris.

Treasurer, O. W. Bright.

Purchasing agent, P. Kaercher.

Superintendent, P. Kaercher.

Process manufacture, McKay-Critchlow.

Pop. dist. supplied, 8,000. No. meters, 34.

Miles of mains, approximate, 7.

Price gas, 1903: Light, \$1.20 to \$1.

Candle-power, 22.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Shenango Valley Electric Light Co.)

Arc system, W. Elec., 150 (2,000 c. p.) arcs capacity.

No. public arcs, 68; hours lighted, 4,000.

Price arc, Public, per year, \$76.

(Power from Youngstown, O.)

Shenandoah Gas Co., Shenandoah.

Capital stock, \$25,000.

President, J. S. Kistler.

Secretary, R. M. Dengler.

Treasurer, H. M. Titman.

Superintendent, E. Anstook.

Process manf., Janeway and Logan (oil).

Pop. dist. supplied, 18,000. No. meters, 220.

Price gas, 1903: Light, \$2.50 to \$1.80. Fuel, \$1.50.

Annual output, approx., 3,500,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 3 p. c.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Shenandoah Electric Illuminating Co.)

Incand. system, Ft. Wayne, 3,200 lamps capac.

Price incand., Commercial, per month, 10c. to \$1.50, average 55c.

Power used, Steam.

Cost boiler fuel per ton, \$1.

Shippensburg Gas and Electric Co., Shippensburg.

(Consolidation of Shippensburg Gas Light Co. and Shippensburg Electric Light Co. Re-organization not yet effected.)

Process manufacture, Lowe.

Pop. dist. supplied, 3,500. No. meters, 175.

Miles of mains, approximate, 4.

Price gas, 1903: Light and Fuel, gross \$1.25 to \$2.50.

Annual output, approx., 3,000,000 c. f.

Lowest pressure for gas stoves, 1.5 in.

Gas stoves in use, 50.

ELECTRICAL DEPARTMENT.

(No report.)

Slatington Gas Co., Slatington.

Capital stock, \$35,000.

Bonds, \$30,000; due 1922; interest 5 p. c.

President, Walter L. Jones.

Treasurer, Jos. Richards.

Pur. agent and supt., John Richards.

Process manufacture, Lowe.

Pop. dist. supplied, 5,000. No. meters, 122.

Miles of mains, approximate, 2.

Price gas: Light net, \$1.75.

Annual output, approx., 1,081,200 c. f.

Wyandotte Gas Light Co., South Bethlehem.

(See Bethlehem.)

Steelton Home Gas Co., Steelton.

Capital stock, \$127,000.

Bonds, \$125,000; due 1925; interest, 5 p. c.

President, Avery Clinton Sickels.

Secretary, J. M. Rudy.

Treasurer, A. B. Greenshields.

Purchasing agent, Avery Clinton Sickels.

Superintendent, V. K. Dunn.

Process manf., Logan, Janeway and Coal-gas.

Pop. dist. supplied, 18,000. No. meters, 700.

Miles of mains, approximate, 6.

Price gas: Light, gross \$1.60; net \$1.45. Fuel gross \$1.30; net \$1.15.

No. public Welsbach lamps, 28.

Annual output, approx., 11,000,000 c. f.

Candle-power, 23.

Gas stoves in use, 425.

Citizens Gas Co. of Stroudsburg.

Capital stock, \$20,000.

Bonds, \$40,000; due 1919; interest, 6 p. c.

President, C. C. Hartpence.

Secretary and treas., Henry C. Ware.

Purchasing agent, C. C. Hartpence.

Superintendent, Chas. A. Gruber.

Process manufacture, Van Syckel Imp. (oil).

Pop. dist. supplied, 7,200. No. meters, 440.

Miles of mains, approximate, 8.

Price gas, 1903: Light and fuel; gross, \$1.60; net \$1.50.

Annual output, approx., 7,000,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 20 p. c.

Lowest pressure for gas stoves, 2.4 in.

Welsbach Street Lighting Co. of America

Gas stoves in use, 185.

Cities supplied: Stroudsburg and East Stroudsburg.

Sunbury Gas Co., Sunbury.

Capital stock, \$100,000.

Bonds, \$95,000; due 1916 & 1929; int., 5 & 6 p. c.

President, J. D. Shattuck.

Sec'y and treas., F. H. Shelton.

Supt. and pur. agent, Geo. W. Beck.

Process manufacture, Lowe.

Pop. dist. supplied, 10,000. No. meters, 795.

Miles of mains, approximate, 10.

Price gas, 1903: Light, gross \$1.65; net \$1.50.

Fuel, gross \$1.65; net \$1.25.

Annual output, approx., 9,000,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 50 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 475.

Supplies Sunbury.

Swarthmore College Gas Works, Swarthmore.

(Private plant for lighting the college buildings. There are 8 outside consumers.)

Treasurer, Chas. M. Biddle.

Superintendent, Jas. D. Hull.

Process manufacture, Coal.

Miles of mains, approximate, 1.33.

Price gas, 1903: Light, \$1.90.

Output, approx., 10 months, 4,500,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 2 p. c.

Citizens Gas Light Co., Tamaqua.

Capital stock, \$15,000.

President, H. A. Weldy.

Secretary, F. P. Spiese.

Treasurer, F. P. Spiese.

Purchasing agent, F. P. Spiese.

Superintendent, Jacob Gerlach.

Process manufacture, Lowe.

Pop. dist. supplied, 3,500. No. meters, 122.

Miles of mains, approximate, 3.

Price gas, 1904: Light, gross \$2; net \$1.50.

Fuel, gross and net \$1.25.

Annual output, approx., 1,600,000 c. f.

Candle-power, 20.

Proportion sold for fuel purposes, 10 p. c.

Lowest pressure for gas stoves, 1.5 in.

Gas stoves in use, 8 to 12.

Titusville Gas and Power Co., Titusville.

(Discontinued manufacture of gas. See Natural Gas Department.)

Towanda Gas Co., Towanda.

Capital stock, \$45,000.

President, Fisher Welles.

Secretary, N. N. Betts.

Treasurer, C. P. Welles.

Purchasing agent, C. P. Welles.

Superintendent, C. P. Welles.

Process manufacture, Coal.

Pop. dist. supplied, 5,000. No. meters, 260.

Miles of mains, 5.

Price gas, 1903: Light, gross \$2.50; net \$2, \$1.75, \$1.50. Fuel, \$1.50.

Annual output, approx., 4,000,000 c. f.

Candle-power, 18.

Lowest pressure for gas stoves, 1.5 in.

Gas stoves in use, 38.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Towanda Electric Illuminating Co. The Welles family has controlling interest in both companies.)

President, S. W. Little.

Treasurer, Fisher Welles.

Secretary and mgr., C. P. Welles.

Arc system, W. Elec., 50 (2,000 c. p.) arcs capac.

Incand. system, Warren, Sandusky, 2,500 lamps capacity.

No. pub. arcs, 40; lighted dark nights to 1 A.M.

No. public incandescents, 8.

Price arc, Public, per year, \$60.

Price arc, Commercial, per month, \$5.

Price incand., Public, per year, 32 c. p., \$25.

Price incand., Commercial, per month, 16 c

p., 75c.; 25 c. p., \$1; 32 c. p., \$1.25; 50 c. p.

\$2; per hour, 0.5c. to 1c.

Power used, Steam.

Cost boiler fuel per ton, \$3.

Tyrone Gas and Water Co., Tyrone.

Cost of plant, \$150,000.

President, A. A. Stevens.

Secretary, Geo. B. Stevens.

Treasurer, Geo. B. Stevens.

Purchasing agent, A. A. Stevens.

Superintendent, C. H. Dieffenbaugh.

Process manufacture, Coal.

Pop. dist. supplied, 7,000. No. meters, 360.

Miles of mains, approximate, 10.

Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.50.

Annual output, approx., 3,600,000 c. f.

Candle-power, 16.

Proportion sold for fuel purposes, 5 p. c.

Lowest pressure for gas stoves, 2.8 in.

Gas stoves in use, 60; including hot plates.

United Light Co., Uniontown.

Capital stock, \$100,000.

President, W. S. Kuhn.

Secretary, C. W. Scheck.

Treasurer, L. L. McClelland.

Purchasing agent, H. F. Barnard.

Process manufacture, McKay-Critchlow and Wilkinson.

Pop. dist. supplied, 10,000. No. meters, 326.

Price gas, 1903: Light, gross \$1.50; net \$1.35.

Annual output, approx., 6,000,000 c. f.

Candle-power, 20.

Natural gas is used for fuel purposes.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Gen. Elec., 200 (2,000 c. p.) arcs capacity.

Incand. system, West'se, alt., 4,500 lamps capacity.

No. public arcs, 107; lighted all and every night.

Price arc, Public, per year, \$70.

Price arc, Commercial, per mo., \$7, disc. 10 p.c.

Price incand., Com'l, per kw-h., 20c.

Power used, Steam.

Cost boiler coal, per ton, delivered, \$1.25.

THE WELSBACH STREET LIGHT possesses great economy over any other method of street illumination. See advertisement, page xx.

Warren Gas Light Co., Warren.

(Works shut down indefinitely. Data below for 1902.)

Capital stock, auth., \$75,000.
Bonds outstanding, \$15,500; interest, 5 p. c.
President, A. J. Hazeltine.
Treas. and sec'y J. K. Simpson.
Purchasing agent, J. K. Simpson.
Superintendent, J. K. Simpson.
Process manufacture, McKay-Critchlow.
Pop. dist. supplied, 10,000. No. meters, 96.
Price gas, 1902: Light, gross \$1.10; net \$1.
Annual output, approx., 1,000,000 c. f.
Candle-power, 22.
Lowest pressure for gas stoves, 1.2 in.

Peoples Gas Co. of Delaware County, Wayne.

(See Ardmore.)

Waynesboro Gas Light Co., Waynesboro.

Capital stock, \$25,000; annual div., 5 p. c.
Bonds, \$20,000; due 1920; interest, 5 p. c.
President, W. H. Brown.
Secretary, Wm. Middlkauff.
Treasurer and pur. agent, Chas. W. Shaibey.
Superintendent, John N. Stickell.
Process manufacture, Lowe.
Pop. dist. supplied, 5,000. No. meters, 445.
Miles of mains, approximate, 4.
Price gas, 1903: Light and Fuel, gross and net \$1.60.
Annual output, approx., 7,500,000 c. f.
Candle-power, 24.
Proportion sold for fuel purposes, 70 p. c.
Lowest pressure for gas stoves, 1.2 in.
Gas stoves in use, 380.
Supplies Waynesboro.

Gas Co. of West Chester, West Chester.

Capital stock, \$150,000.
Bonds, \$50,000; interest, 5 p. c.
President, Robt. Wetherill.
Secretary, Geo. Henderson.
Treasurer, Geo. Henderson.
Purchasing agent, Chas. F. Cattell.
Superintendent, Chas. F. Cattell.
Process manufacture, Lowe.
Pop. dist. supplied, 10,000. No. meters, 1,400.
Miles of mains, approximate, 12.
Price gas, 1903: Light and Fuel, gross \$1.35; net \$1.25.
Annual output, approx., 25,000,000 c. f.
Candle-power, 26.
Proportion sold for fuel purposes, 70 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 2,100.
Supplies Westchester.

Gas Co. of Luzerne County, Wilkesbarre.

Capital stock, \$750,000; annual div., 2.5 p. c.
Bonds, \$593,000; due 1928; interest, 5 p. c.
President, Abram Nesbitt.
Secretary, E. W. Mulligan.
Treasurer, E. W. Mulligan.
Gen. mgr. and pur. agt., John Flanigan.
Process manufacture, Lowe.
Pop. dist. supplied, 60,000. No. meters, 4,500.
Miles of mains, approximate, 50.
Price gas, 1903: gross \$1.20; net, \$1.10 to 90c.

Gas furnished to Welsbach Street Lt'g Co., who has contract for city lighting.
Annual output, approx., 112,000,000 c. f.
Candle-power, 25.
Proportion sold for fuel purposes, 5 p. c.
Lowest pressure for gas stoves, 2.5 in.
Supplies Wilkesbarre and Ashley.

Williamsport Gas Co., Williamsport.

Capital stock, \$350,000.
Bonds outstanding, \$400,000; interest, 5 p. c.
President, H. E. Gawtry.
Secretary, L. B. Gawtry.
Treasurer, T. W. Stephens.
Pur. agt and supt, J. W. Lane.
Process manufacture, Lowe.
Pop. dist. supplied, 45,000. No. meters, 3,900.
Miles of mains, approximate, 38.
Price gas, 1903: Light, gross \$1.60; net \$1.50.
Fuel, gross \$1.10; net \$1.
No. public Welsbach lamps, 130.
Consumption per burner per hour, 3 c. f.
Contract includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 51,000,000 c. f.
Lowest pressure for gas stoves, 2 in.

Willow Grove Gas and Lighting Co., Willow Grove.

(Expect to build works summer of 1904.
Principal office, Pennsylvania Gas Improvement Co., Philadelphia, Pa.)

Jenkintown and Cheltenham Gas Co., Wyncote.

Capital stock, pref. \$37,500; com., \$100,000.
Bonds \$165,000; due 1918 and 1933; int. 5 and 6 p. c.
President, H. E. Butler.
Sec'y and treas., F. H. Shelton.
Purchasing agent, L. R. Dutton.
Superintendent, L. R. Dutton.
Process manufacture, Lowe.
Pop. dist. supplied, 10,000. No. meters, 1,200.
Miles of mains, approximate, 20.
Price gas, 1903: Light and fuel gross, \$1.40; net \$1.30.
No. public Welsbach lamps, 95.
Consumption per burner per hour, 3 c. f.
Annual output, approx., 22,000,000 c. f.
Candle-power, 22.
Proportion sold for fuel purposes, 60 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves and heaters in use, 1,448.
Supplies Jenkintown and suburban territory for 5 miles from Oak Lane to Edge Hill, north of city of Philadelphia.

Bucks County Gas Co., Yardley.

(Expect to build plant summer of 1904.
Principal office, Pennsylvania Gas Improvement Co., Philadelphia, Pa.)

York Gas Co., York.

Capital stock, \$500,000.
President, Grier Hersh.
Secretary, James H. Small.
Treasurer, J. J. Frick.
General manager, F. R. Smart, Jr.
Purchasing agent, F. R. Smart, Jr.

Extract from report of the Chief Engineer of Fairmount Park, Philadelphia, in regard to Welsbach Park Lights: "The **Welsbach** Lights with which you are now lighting the great pleasure ground of the city of Philadelphia are giving great satisfaction, adding greatly to the attractiveness of the Park."

See advertisement, page xx.

Superintendent, F. R. Smart, Jr.
 Process manufacture, Lowe.
 Pop. dist. supplied, 35,000. No. meters, 6,000.
 Miles of mains, approximate, 31.
 Price gas, 1904: Light and fuel, gross \$1.15;
 net \$1.10.
 No. public Welsbach lamps, 9.

Hours lighted 4,000.
 Annual output, approx., 63,000,000 c. f.
 Candle-power, 29.
 Proportion sold for fuel purposes, 69 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 No. gas stoves in use, 1,200.
 Supplies York.

RHODE ISLAND.

Bristol County Gas and Electric Co., Bristol.

(Leased to and operated by Narragansett
 Electric Lighting Co., Providence.)
 Capital stock, \$100,000.
 Bonds outstanding, \$100,000; interest, 6 p. c.
 President, Samuel P. Colt.
 Sec'y and treas., E. A. Barrows.
 Pur. agt and gen'l supt., W. I. Barnes.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 700.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$2; net \$1.90.
 Fuel, gross \$1.60; net \$1.50.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 41 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 320.
 Cities supplied: Bristol and Warren.

ELECTRICAL DEPARTMENT.

(All current generated at the Providence
 plant of the Narragansett Electric Light-
 ing Co.)

Newport Gas Light Co., Newport.

Capital stock, \$300,000; annual div., 8 p. c.
 President, Melville Bull.
 Secretary, T. A. Lawton.
 Treasurer, A. K. Quinn.
 Purchasing agent, A. K. Quinn.
 General manager, A. K. Quinn.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 25,000. No. meters, 2,800.
 Miles of mains, approximate, 35.
 Price gas, 1903: Light and Fuel, gross \$1.50;
 net \$1.30.
 No. public lamps, 600. Price per 1,000, \$1.20.
 No. public Welsbachs, 136 (incl. above).
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care and lighting.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 85,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel and power, 30 p. c.
 Lowest pressure for gas stoves, 1.2 in.

Pawtucket Gas Co., Pawtucket.

Capital stock, \$750,000.
 President, F. W. Easton.
 Secretary, Wm. McGregor.
 Treasurer, C. L. Knight.
 Purchasing agent, Wm. McGregor.
 Superintendent, Wm. McGregor.
 Process manufacture, Coal and Lowe.
 Pop. dist. suppl'd, 50,000. No. meters, 11,656.
 Miles of mains, approximate, 136.

Price gas, 1903: Light, gross \$1.50; net \$1.40.
 Fuel, gross \$1.25; net \$1.15.
 No. public lamps, 114. Price per year, \$12.
 Consumption per burner per hour, 5 c. f.
 Price does not include repairs, care, lighting
 and extinguishing.
 Lighted by moon scale.
 Annual output, approx., 173,030,600 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 28 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 5,921.
 Supplies Pawtucket, Central Falls, Lincoln
 and Cumberland.

Providence Gas Co., Providence.

Capital stock, \$3,000,000; annual div., 8 p. c.
 President, John W. Ellis.
 Vice-president, Wm. Goddard.
 Secretary and treasurer, Wm. P. Nye.
 Purchasing agent, John W. Ellis.
 Superintendent, Andrew Hutchison.
 Engineer, Edmund Cathels.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 225,000. No. meters, 31,450.
 Miles of mains, approximate, 294.
 Price gas, 1903: Light and Fuel, gross and net
 \$1.10.
 No. public Welsbach lamps, 793.
 Consumption per burner per hour, 3 c. f.
 Contract does not include repairs, care, light-
 ing and extinguishing.
 Lighted all and every night.
 Annual output, approx., 982,000,000 c. f.
 Candle-power, 19 to 20.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 20,600.
 Supplies city of Providence and towns of
 Coanston and East Providence.

Westerly Gas and Electric Light Co., Westerly.

Capital stock, pref. \$7,500; com. \$50,000.
 Annual div. pref., 6 p. c.; com., 4 p. c.
 Bonds outstanding, \$50,000; interest, 5 p. c.
 President, J. O. Sweet.
 Secretary, William Hoxsey.
 Treasurer, J. M. Klingelsmith.
 Superintendent, Francis S. Thayer.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 432.
 Miles of mains, approximate, 5.5.
 Price gas, 1903: Light and Fuel, \$1.75; net
 \$1.57.
 No. public lamps, 18.
 Consumption per burner per hour, 6 c. f.
 Lighted 12 P. M. to 4 A. M. dark nights.
 Annual output, approx., 8,500,000 c. f.

THE **Welsbach** STREET LIGHT is a pure white light, unaffected by change of temperature, winds, or other natural disturbances. See advertise-
 ment, page xx.

Candle-power, 22.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, about 85.
 Supplies Westerly, Paucatuck and Watch Hill.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, T. H., 30 (1,200 c. p.) arcs capac.
 Incand. system, T. H., West'se, 2,400 lamps capacity.
 No. public arcs, 30; hours lighted, 2,100.
 No. public incand., 287; hours lighted, 2,100.
 Price arc, Public, per year, \$75.
 Price arc, Commercial, scaled.
 Price incand., Public, per year, 25 c. p., \$15.
 Price incand., Com'l, per kw-h., 20c., with disc.

Power used, Steam.
 Cost boiler fuel per ton, \$4.10.

Woonsocket Gas Co., Woonsocket.

Capital stock, \$250,000.
 President, Edwin Aldrich.
 Secretary, Zeuner M. Jenks.
 Treasurer R. G. Randall.
 Purchasing agent, Z. M. Jenks.
 Superintendent, Z. M. Jenks.
 Process manufacture, Standard Lowe.
 Pop. dist. supplied, 30,000. No. meters, 2,136.
 Miles of mains, approximate, 26.
 Price gas, 1903: Light and Fuel, gross \$1.60; net \$1.50.
 Annual output, approx., 42,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2 in.
 Cities supplied: Woonsocket, R. I., Blackstone, Mass.

SOUTH CAROLINA.

Charleston Consolidated Railway, Gas and Electric Co., Charleston.

Capital stock, \$1,500,000; annual div., 1 p. c.
 Bonds, \$2,500,000; due 1998; interest 5 p. c.
 President, Philip H. Gladsden.
 Treas., and pur. agt, S. H. Wilson.
 Secretary, P. J. Balaguer.
 Superintendent, John Thompson.
 Process manufacture, Coal.
 Pop. dist. supplied, 56,000. No. meters, 4,000.
 Miles of mains, approximate, 59.
 Price gas, 1903: Light, gross \$1.60. Fuel, \$1.20.
 Public Welsbach lamps, 400.
 Consumption per burner per hour, 3 c. f.
 Contract does not include repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 110,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 23 p. c.
 Lowest pressure for gas stoves, 1.2 in.
 Gas stoves in use, 1,200.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, T. H., 650 (1,200 c. p.) arcs capac.
 Incand. system, 14,000 lamps capacity.
 No. public arcs, 175; hours lighted, 4,000.
 Price arc, Public, per year, \$97.50.
 Price arc, Commercial, per month, \$10 to \$12.
 Price incandescent, Public, per year, \$24.
 Price incandescent, Com., per kw-h., 15c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.04.

Columbia Gas Light Co., Columbia.

Capital stock, \$100,000.
 Bonds, \$150,000; due 1906 & 1931; int., 5 & 6 p. c.
 President, R. D. Apperson.
 Secretary, F. H. Shelton.
 Treasurer, F. H. Shelton.
 Purchasing agent, J. M. Daniels.

Superintendent, John M. Daniels.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 28,000. No. meters, 855.
 Miles of mains, approximate, 15.
 Price gas, 1903: Sliding scale, \$1.60 to \$1.25 net.
 Annual output, approx., 23,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 350.
 Supplies Columbia.

Greenville Gas & Electric Light & Power Co., Greenville.

Capital stock, auth., \$100,000; issued, \$53,500.
 Bonds, \$160,000; due 1930; interest 5 p. c.
 President, Geo. M. Bunting.
 Secretary, H. Bayard Hodge.
 Treasurer, Geo. M. Bunting.
 Purchasing agent, James H. Dawes.
 General superintendent, James H. Dawes.
 Local superintendent, Geo. H. Bliven.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 468.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$2; net \$1.75.
 Fuel, gross \$1.70, net \$1.45.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel, 20 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 49.
 Supplies Greenville.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Brush, 110 (1,200 c. p.) arcs capac.
 Incand. system, Stanley, 1,200 lamps capac.
 Power generators, 450 kw. capacity.
 No. public arcs, 98; hours lighted, 2,300.
 No. public incand., 1,000; lighted 4,380 hours.
 Price arc, Public, per year, \$75 and \$90.

Welsbach STREET LIGHTING COMPANY OF AMERICA:

GENTLEMEN: I am pleased to add my recommendation to your system of street lighting. From my experience of street lighting, particularly in cities where the streets abound in shade trees, I have found it vastly superior to electric lighting, and believe that it is the proper way for lighting all streets. (Signed) HENRY S. KARNY, Commissioner.

City of New York, Department of Public Buildings, Lighting and Supplies.

See advertisement, page xx.

Price arc, Commercial, per month, \$6.50.
 Price incand., Com'l, per mo., 16 c. p., 90c.;
 per kw., 10 to 15c.
 Power used, Steam.
 Cost boiler fuel per net ton, \$3.15.

Spartanburg Railway, Gas and Electric Co., Spartanburg.

Capital stock, \$150,000.
 President, F. D. McEowen.
 Treasurer, F. D. McEowen.
 Pur. agt, and supt., J. D. Maxwell, Jr.
 Auditor, Percy Hodson.
 Supt. of transportation, B. A. Buckheister.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 200.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light and Fuel, gross \$1.50.
 Annual output, approx., 9,125,000 c. f.

Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 50.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Gen. Elec., 148; 15 (1,200 c. p.) arcs capacity.
 Incand. system, Gen. Elec., 4,500 lamps capac.
 Power generators, 300 kw. capacity.
 No. public arcs, 148; hours lighted, 4,000.
 No. public incand., 125; lighted 4,000 hours.
 Price arc, Public, per year, \$75.
 Price arc, Commercial, per month, \$8.33.
 Price incand., Com'l, per mo., 16 c. p., to 12 P. M., 75c.; all night, \$1.02; per kw-h., 15c. with 10 p. c. disc.
 Power used, Steam.

SOUTH DAKOTA.

Aberdeen Gas Co., Aberdeen.

Capital stock, auth., \$150,000; issued, \$60,000.
 Bonds, \$50,000; due 1917; interest, 6 p. c.
 President, Chas. A. Howard.
 Vice-president, M. R. Heringer.
 Secretary, S. C. Hedger.
 Treasurer, S. C. Hedger.
 Purchasing agent, Chas. A. Howard.
 Superintendent, F. H. Beck.
 Process manufacture, Lowe.
 Pop. dist. supplied, 6,500. No. meters, 475.
 Miles of mains, approximate, 7.
 Price gas, 1903: gross and net: Light, \$2.50; Fuel, \$2.
 No. public Welsbach lamps, 16.
 Lighted all and every night.
 Annual output, approx., 12,738,440 c. f.
 Candle-power, 22.
 Proportion sold for fuel, 30 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 202.
 Supplies Aberdeen.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Brush, 30 (2,000 c. p.) arcs capac.
 No. public arcs, 19; lighted by moon scale.
 Price arc, Public, per year, \$125.
 Power used, Otto Gas Engine.
 Cost boiler coal per ton, \$7.50.

Deadwood Gas Company, Deadwood.

Capital stock, \$80,000; annual div., 4 p. c.
 President, G. W. Alt.
 Sec'y and treas., J. A. Bower.
 Purchasing agent, Henry F. Hoeft.
 Superintendent, Henry F. Hoeft.
 Process manf., Practical (oil).
 Pop. dist. supplied, 5,000. No. meters, 180.
 Miles of mains, approximate, 8.
 Price gas 1903: Light and fuel, gross \$2; net \$1.80 and \$1.60.
 No. public Welsbachs, 26.
 Contract includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted, per year, 3,650.
 Annual output, approx., 7,000,000 c. f.

Candle-power 26 to 28.
 Proportion sold for fuel purposes, 45 p. c.
 Gas stoves in use, 75.
 Supplies Deadwood.

(To erect new works which will supply Deadwood and Lead (pop. 17,000.)

De Smet Gas Works, De Smet.

(Owned by village.)
 Village president, A. N. Waters.
 Process manf., Practical (oil).
 Pop. dist. supplied, 1,000. No. meters, 150.
 Miles of mains, approx., 3.
 Price gas per 1,000 c. f., \$2.
 No. public Welsbach lamps, 26; hours lighted, 1,800.
 Annual output, approx., 2,000,000.
 Candle-power, 24.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 3 in.
 Supplies De Smet.

Rapid City Gas Light Co., Rapid City.

(Company reorganized and plant rebuilt. In operation since March 1, 1904.)
 Capital stock, 50,000.
 Bonds, \$50,000; due, 1923; interest, 5 p. c.
 President, Edward M. Deane.
 Secretary, Henry T. Heald.
 Treasurer, Dwight Smith.
 Purchasing agent and manager, H. B. Wales.
 Superintendent, James Trimble.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000.
 Miles of mains, approximate, 7.
 Price gas, 1903: gross \$2; net \$1.70.

Sioux Falls Gas Light Co., Sioux Falls.

Capital stock, \$50,000.
 First mort., \$25,000, due 1907, at 6 p. c.; second mort., \$25,000, 1908, at 7 p. c.
 President, Geo. H. Brace.
 Secretary, Lewis Lillie.
 Treasurer, Lewis Lillie.
 Pur. agent, J. A. Pearson.

Welsbach System of Street Lighting

Superintendent, W. H. McKenzie.
 Process manufacture, Lowe.
 Pop. dist. supplied, 12,000. No. meters, 2,032.
 Miles of mains, approximate, 21.
 Price gas, 1903: Light and Fuel, gross \$1.60;
 net \$1.50.

Annual output, approx., 30,679,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 55 p. c.
 Lowest pressure for gas stoves, 2.3 in.
 Gas stoves in use, 836.
 Supplies Sioux Falls.

TENNESSEE.

Bristol Gas and Electric Co., Bristol.

Capital stock, \$200,000.
 Bonds, \$200,000; due 1923; interest, 5 p. c.
 President, Charles B. Hobbs.
 Sec'y and treas., M. W. Dodge.
 Gen'l mgr. and pur. agent, E. M. Walker.
 Superintendent, S. M. Vance.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000. No. meters, 450.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, gross \$1.75; net \$1.50.
 Fuel, gross \$1.25, net \$1.
 Annual output, approx., 7,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 150.
 Cities suppl'd: Bristol, Tenn. and Bristol, Va.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, G. E., 56 (1,200 c. p.) arcs capac.
 Incand. system, G. E., 5,000 lamps capacity.
 Power generators, 100 kw.
 No. public arcs, 55; hours lighted, 3,650.
 No. public incand., 93; hours lighted, 3,650.
 Price arc, Public, per year, \$80.
 Price incand., Public, per year, \$12.
 Price arc, Com'l, per month, (1,200 c. p.) \$4.80.
 Price incand., Com'l, per kw-h. 12c. Disc.
 5 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.45.

Chattanooga Gas Light Co., Chattanooga.

Capital stock, \$200,000.
 President, J. A. Caldwell.
 Secretary, I. S. Post.
 Treasurer, I. S. Post.
 Purchasing agent, James Forbes.
 Superintendent, James Forbes.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 35,000. No. meters, 2,892.
 Miles of mains, approximate, 33.75.
 Price gas, 1904: Light and Fuel, gross \$1.10;
 net 90c. to \$1.
 Annual output, approx., 68,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 900.
 Supplies Chattanooga.

Clarksville Gas Co., Clarksville.

Capital stock, \$50,000.
 Bonds, \$30,000; due 1933; Interest, 5 p. c.

President, J. H. Fall.

Vice-pres. and gen'l mgr., J. Frank Stacey.
 Secretary and treas., S. J. Lowe.
 Purchasing agent, S. J. Lowe.
 Superintendent, S. J. Lowe.
 Process manufacture, Coal.
 Miles of mains, approx., 10.
 Population city, 12,000. No. meters, 400.
 Price gas, 1903: Light and Fuel, gross \$1.75;
 net \$1.50.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 250.
 Supplies Clarksville.

Citizens Gas Light Co., Jackson.

Capital stock, \$50,000.
 Bonds outstanding, \$12,500.
 President, John L. Wisdom.
 Secretary, H. E. Kincaid.
 Treasurer, Second National Bank.
 Agent, John L. Wisdom.
 Superintendent, H. E. Kincaid.
 Process manufacture, Coal.
 Population, city, 18,000.
 Price gas, 1903: Light, net \$2. Fuel, net \$1.35

Knoxville Gas Co., Knoxville.

Capital stock, pref., \$100,000; com., \$300,000.
 Bonds, \$350,000; due 1933; Interest, 5 p. c.
 President, G. G. Olmstead.
 Treasurer, Jno. E. Hood.
 Secy and gen. mgr., Jno. E. Hood.
 Purchasing agent, A. W. Young.
 Superintendent, A. W. Young.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 45,000. No. meters, 3,000.
 Miles of mains, approximate, 34.
 Price gas, 1903: Light and Fuel, gross \$1.10.
 net \$1.
 Annual output, approx., 80,000,000 c. f.
 Candle-power, 17.5.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,200.
 Supplies Knoxville.

Memphis Consolidated Gas and Electric Co., Memphis.

President, A. N. Brady.
 Vice-pres. and gen'l mgr., Sam'l T. Carnes.
 Secretary, Richard Rees.
 Treasurer, J. W. Clapp.
 Assitant treasurer, Frank Jones.
 Process manufacture, Coal and Lowe.
 Population, city, 125,000. No. meters, 8,500.

Extract from report of Brooklyn Parks:

"The **Welsbach** Lights are better adapted for Park Roads, being closer to the ground and free from shadows, and giving a clear, straight, white light." See advertisement, page xx.

Miles of mains, approximate, 103.
 Price gas, 1904: Light, gross \$1.20; net \$1.10.
 Fuel, gross \$1.10; net \$1.
 No. public Welsbach lamps, 700. Lighted 7 months moonlight, 5 months all and every night.
 Annual output, approx., 240,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 4,000.
 Supplies Memphis.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc syst., G. E., 600 (7.5 amp. ene.) arcs capac.
 Incand. system, G. E. and Stanley, 65,000 lamps capacity.
 Power generators, 4,000 kw. capacity.
 No. public arcs, 455; hours lighted, 4,300.
 Price arc, Public, per year, \$85.
 Price arc and incand., Commercial, per kw., gross 15c.; discount, 20 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$2.

City Gas and Electric Light Co., Murfreesboro.

Capital invested, \$30,000.
 Owner and mgr., J. H. Nelson.
 Process manufacture, Coal.
 Population, city, 5,000. No. meters, 80.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$1.50; net \$1.35.
 Fuel, \$1.25.
 Annual output approx., 2,000,000 c. f.
 Gas stoves in use, 4.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc and incand. systems, G. E., 120 kw. capac.
 No. public arcs, 11 (1,200 c. p.); lighted by moon scale.
 No. public incandescents, 117.
 Price arc, Public, per year, \$85.
 Price incand., public per year, 25 c. p., \$16.80.
 Price incand., Com'l, per kw-h., 10c. to 15c.; discount 10 p. c.
 Price per kw.: gross 15c. Disc. 10 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.

Nashville Gas Co., Nashville.

Capital stock, \$1,150,000; annual div. 6 p. c.
 President, Thos. H. Malone.
 Secretary, V. K. Stevenson.
 Treasurer, V. K. Stevenson.
 Purchasing agent, J. Frank Stacey.
 Superintendent, J. Frank Stacey.
 Process manf., Coal and Stacey.
 Pop. dist. supplied, 130,000. No. meters, 7,345.
 Miles of mains, approximate, 93.
 Price gas, 1903: Light and Fuel, gross \$1.10; net \$1.
 No. public lamps, 1902, 385. Price per 1,000, \$1.
 Consumption per burner per hour, 6 c. f.
 Price does not include repairs, care, lighting and extinguishing.
 Lighted by moon scale.
 Annual output, approx., 219,739,000 c. f.
 Candle-power, 15.5.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 3,898.

Pulaski Gas Co., Pulaski.

(Out of business perman. tly.)

TEXAS.

Austin Gas Co., Austin.

Capital stock, pref., \$62,000; com., \$88,000.
 President, Nelson A. McClary.
 Secretary and pur. agt., Edward E. Morrell.
 Treasurer, Irwin Rew.
 General manager, E. E. Morrell.
 Superintendent, H. M. Moore.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 22,000. No. meters, 950.
 Miles of mains, approximate, 15.
 Price gas, 1903, Light, gross, \$2; net \$1.90.
 Fuel, gross \$1.50; net \$1.40.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 70 p. c.
 Lowest pressure for gas stoves, 2.8 in.
 Gas stoves in use, 500.

Beaumont Gas Co., Beaumont.

(In course of construction.)
 President, C. W. Tyrell.
 Vice-president, H. W. Potter.
 Secretary, John L. Keith.
 Treasurer, H. H. Norrell.
 Superintendent, A. A. Houser.

Dallas Gas and Fuel Co., Dallas.

Capital stock, \$100,000.
 Bonds outstanding, \$100,000; interest, 6 p. c.
 President, J. E. Schneider.
 Vice-president and treas., J. C. O'Connor.
 Gen'l mgr. and eng., W. E. Mockett.
 Secretary, Jno. P. Evans.
 Purchasing agent, W. E. Mockett.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 45,000. No. meters, 3,197.
 Miles of mains, approximate, 49.
 Price gas, 1903: Light, gross \$1.60; net \$1.55.
 Fuel, gross \$1.40, net \$1.35.
 Annual output, approx., 60,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 57 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 1,500.
 Supplies Dallas.

Denison Light and Power Co., Denison.

Capital stock, \$125,000.
 Bonds, \$100,000; due, 1920; interest, 6 p. c.
 President, W. B. Munson.
 Vice-president, J. B. McDougall.

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA can furnish lanterns and fixtures for every possible contingency that may occur. See advertisement, page xx.

Secretary, J. R. Cullinane.
 Treasurer, J. R. Cullinane.
 Purchasing agent, J. R. Cullinane.
 Superintendent, J. R. Cullinane.
 Process manufacture, Coal.
 Pop. dist. supplied, 16,000. No. meters, 575.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light, \$2; Fuel, \$1.50.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, 200.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, West'se, Warren, 440 kw. capac.
 Incand. system, Warren, 5,000 lamps capac.
 No. public arcs, (2,000 c. p.) 54; lighted all and every night.
 Price arc, Public, per year, \$80.
 Price arc, Com'l, per month, to 12 P. M., \$8.50; all night, \$13.50.
 Price incand., Com'l, per mo., 16 c. p., to 12 P. M., 80c.; all night, \$1.65; per kw-h., 15c.
 Power used Steam.
 Cost boiler fuel per ton, \$2.25.
 Oil per barrel, 72c.

El Paso Gas, Electric Light and Power Co., El Paso

(Lessees: Peter Wehner and Z. T. White.)

Process manufacture, Coal.
 Pop. dist. supplied, 15,900.
 Price gas, 1903: Light, \$2.25. Fuel, \$2.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.7 in.

Fort Worth Light and Power Co., Fort Worth.

Capital stock, \$300,000.
 President, Henry C. Scott.
 Secretary, Samuel Beck.
 Treasurer, Henry C. Scott.
 Pur. agent, H. C. Scott.
 Manager, J. C. Lord.
 Process manufacture, Coal.
 Pop. dist. supplied, 35,000. No. meters, 2,100.
 Miles of mains, approximate, 25.
 Price gas, 1903: Light, gross \$2; net \$1.80.
 Fuel, gross \$2; net \$1.33½.
 Annual output, approx., 43,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 55 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 1,200.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, T. H., 140 (2,000 c. p.) arcs capac.
 Incand. system, West'se, 12,000 lamps capac.
 Power generators, 600 kw. capacity.
 No. public arcs, 140; Price per year, \$108.
 No. public incand., 12,000; Price per yr., \$12.
 Price per kw., gross 15c. Disc. 10 p. c.
 Power used, Steam.

Gainesville Light and Fuel Co., Gainesville.

Capital stock, \$60,000.
 Bonds \$16,000; due, 1908; interest, 6 p. c.
 President, J. M. Lindsay.
 Vice-president, Geo. Y. Bird.
 Sec'y and treas., W. C. Penfield.
 Purchasing agent, W. C. Penfield.
 Superintendent, W. C. Penfield.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000. No. meters, 300.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light and Fuel, gross \$2; net \$1.90.
 Annual output, approx., 4,200,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 17 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 108.
 Supplies Gainesville.

Galveston Gas Co., Galveston.

Capital stock, \$500,000; annual div., 3 p. c.
 Bonds, \$85,000; due, 1908; interest, 6 p. c.
 President, J. H. Hutchings.
 Vice-president, John Sealy.
 Sec'y and treas., A. J. Miller.
 Pur. agt. and supt., John Gimper.
 Process manufacture, Lowe.
 Pop. dist. supplied, 25,000. No. meters, 1,200.
 Miles of mains, approximate, 27.
 Price gas, 1903: Light and Fuel, net \$1.50.
 Annual output, approx., 37,000,000 c. f.
 Candle-power, 20 and 22.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 550.

Houston Gas Light Co., Houston.

Capital stock, \$300,000; annual div., 8 p. c.
 President, T. W. House.
 Sec'y and treas., John Shearn.
 Purchasing agent, John Shearn.
 General manager, John Shearn.
 Superintendent, J. H. Fitzgerald.
 Process manufacture, Coal and Lowe.
 Population, city, 70,000. No. meters, 3,000.
 Miles of mains, approximate, 35.
 Price gas, 1903: Light and fuel gross, \$1.80; net, \$1.50.
 Annual output, approx., 70,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Supplies Houston.

Paris Light and Power Co., Paris.

Capital stock, \$200,000.
 Bonds, \$200,000; due, 1931; interest 5 p. c.
 President, T. W. Crouch.
 Secretary, H. L. Baker.
 Treasurer and mgr., Jno. A. Porter.
 Process manufacture, Coal.
 Population, city, 17,000. No. meters, 250.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, net \$2.50. Fuel, \$1.50.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 52 p. c.
 Lowest pressure for gas stoves, 1.6 in.
 Gas stoves in use, 85.

"I would state that the **Welsbach** System of Street Lighting that was installed in this city in June, 1898, has proved entirely satisfactory to this department."

(Signed) WILLIAM D. LANG, Superintendent of Lamps, Boston, Mass.

See advertisement, page xx.

ELECTRICAL DEPARTMENT.

Operated under same name as gas company.)
 Arc system, Gen. Elec., 200 (1,200 c. p.) arcs capacity.
 Incandescent system, Gen. Elec., 8,000 lamps capacity.
 No. public arcs, 80; hours lighted, 2,800.
 Price arc, Public, per year, \$84.
 Price arc, Commercial, per month, \$9.
 Price incandescent, Commercial, per month, 16 c. p., all night, \$1.50; per kw-h., 20c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.60.

San Antonio Gas and Electric Co., San Antonio.

Capital stock, \$200,000.
 President, Reagan Houston.
 Vice-president, Emerson McMillin.
 Sec'y and treas., C. Jones Thomas.
 Purchasing agent, C. R. Jones.
 Supt. gas dept., H. H. Scott.
 Process manufacture, Lowe.
 Pop. dist. supplied, 25,000. No. meters, 1,300.
 Miles of mains, approximate, 35.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 30,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 95 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, approx., 1,000.
 Supplies San Antonio.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, West. Elec. and Brush, 530 (2,000 c. p.) arcs capacity.
 Incand. syst., Gen. Elec. 20,000 (16 c. p.) lamps capacity.
 Power generators, 670 kw. capacity.
 No. public arcs, 317; lighted 3,200 hours per year.
 Price arc, Public, per year, \$90.
 Price arc, Com'l, per mo., 10 o'clock, \$7.50; 1 o'clock, \$12.50; all night, \$16.
 Price incand., Com'l, per kw-h., 20c.; disc. 20 to 50 p. c.
 Power used, Steam.
 Cost oil per barrel, 84c.

Sherman Gas Light and Fuel Co., Sherman.

Capital stock, \$200,000.
 Bonds \$150,000; due, 1923; interest, 5 p. c.
 President, E. P. Holmes.
 Secretary, W. E. Jakway.
 Treasurer, John B. Sears.
 Purchasing agent, Jno. R. Ellis.
 Superintendent, Jno. R. Ellis.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 755.
 Miles of mains, approximate, 14.
 Price gas, 1903: Light, gross, \$2; net, \$1.90.
 Fuel gross, \$1.50; net, \$1.40.
 Annual output, approx., 18,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.9 in.
 Gas stoves in use, 432.
 Supplies Sherman.

Waco Gas Co., Waco.

Capital stock, \$200,000.
 President, George Clark.
 Secretary, T. H. Stuart.
 Treasurer, Henry C. Scott.
 Pur. agt., H. C. Scott, St. Louis Mo.
 Superintendent, W. S. Rathell.
 Process manufacture, Coal.
 Pop. dist. supplied, 25,000; meters, 800.
 Miles of mains, approximate, 13.
 Price gas, 1903: Light, gross \$2; net \$1.90.
 Fuel, \$1.50.
 Annual output, approx., 16,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 56 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 600.
 Supplies Waco.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system T. H., 255 (2,000 c. p.) arcs capac.
 Incand. system, West'se, 10,600 lamps capac.
 No. public arcs, 139; lighted all and every night.
 Price arc, Public. '02. per year, \$120.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.

UTAH.**United Light and Railway Co., Salt Lake City.**

(Successor to Consolidated Railway and Power Co. and Utah Light and Power Co.)
 President, Joseph F. Smith.
 Secretary and gen'l manager, R. S. Campbell.
 Treasurer, L. S. Hills.
 Process manufacture, Coal and Lowe.
 Population district supplied, Salt Lake City, 75,000; Ogden, 15,000. No. meters, 800.
 Miles of mains, approximate, 25.
 Price gas, 1903: Light, gross \$1.90; net \$1.71.
 Fuel, gross \$1.40; net \$1.26.
 Annual output, approx., 60,000,000 c. f.
 Candle-power, 18.

Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.5.
 Gas stoves in use, 300.
 Supplies Salt Lake City and Ogden.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Generators, G. E., West'se, T. H., Brush, 8,900 h. p. capacity.
 No. public arcs, 570; lighted all and every night.
 Price arc, Public, per year, \$72.
 Price arc, Com'l, per month, \$7.50 to \$11.25.
 Price incand., Com'l, per kw-h., 15c.
 Power used, Steam and Water.

THE IMPROVED **Welsbach** STREET LIGHTING FIXTURES furnish the perfection of street lighting outfits. See advertisement, page xx.

Peoples Lighting, Heating and Power Co., Barre.

(In course of construction.)

Capital stock, \$100,000.
 Bonds, \$75,000; due 1945; interest, 6 p. c.
 President, John J. Flynn.
 Secretary, H. K. Bush.
 Treasurer, F. H. Howland.
 Purchasing agent, Levi S. Davis.
 Superintendent, Levi S. Davis.
 Process manufacture, Davis system.
 Population to be supplied, 13,000.
 Miles of mains to be laid, 6.

Battleboro Gas Light Co., Battleboro.

Capital stock, \$92,000; annual div., 6 p. c.
 Bonds, \$92,000; due 1909, 1917 and 1923; int., 5 p. c.
 President, Henry D. Holton.
 Secretary, C. F. Thompson.
 Treasurer, C. F. Thompson.
 Purchasing agent, C. F. Thompson.
 Superintendent gas dept., E. M. Smith.
 Superintendent elec. dept., H. R. Brown.
 Process manufacture, Lowe.
 Pop. dist. supplied, 3,500. No. meters, 500.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, \$2.25 to \$2.50. Fuel, \$2.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, 180.
 Supplies Battleboro, West Battleboro, Vt., and Hinsdale, N. H.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, T. H., 50 (2,000 c. p.) arcs capac.
 Incand. system, T. H., 2,500 lamps capacity.
 No. public arcs, 50.
 No. public incandescents, 86.
 Price arc, Public, per year, to 12 P. M., \$80; all night, \$110.
 Price incand., Public, per year, 25 c. p., \$18.
 Price incand., Com'l, per kw-h., 15c. to 20c.
 Power used, Steam and Water.
 Cost boiler fuel per gross ton, \$4.75.

Burlington Light and Power Co., Burlington.

Capital stock, \$125,000.
 Bonds, \$50,000; due 1905; interest, 5 p. c.
 President, Morris W. Stroud.
 Secretary, F. H. Parker.
 Treasurer, Morris W. Stroud.
 Gen. sup. & pur. agt., S. P. Curtis, Phila., Pa.
 Local supt., F. H. Parker.
 Process manufacture, Lowe.
 Pop. dist. supplied, 20,000. No. meters, 1,900.
 Miles of mains, approximate, 22.
 Price gas, 1903: Light, gross \$1.60; net \$1.10 to \$1.50. Fuel, gross \$1.25; net \$1.
 Annual output, approx., 35,000,000 c. f.
 Candle-power, 21.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 900.
 Supplies Burlington.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas co.)

Arc system, Brush and T. H., 380 (2,000 c. p.) arcs capacity.
 Incand. syst., Gen. Elec., 10,000 lamps capac.
 No. public arcs, 215; hours lighted, 4,000.
 Price arc, Public, per year, \$80.
 Price arc, Commercial, per mo., \$5 to \$5.50.
 Price incand., Com'l, per kw-h., 10c.
 Power used, Water.
 Cost of boiler coal per ton, \$4.50.
 Lights Burlington and Winooski.

Capital City Gas Co., Montpelier.

Capital stock, \$50,000.
 President, J. Warren Lamb.
 Secretary and treasurer, F. N. Smith.
 Pur. agt. and supt., Benj. P. Bill.
 Process manufacture, Coal
 Pop. dist. supplied, 7,000. No. meters, 285.
 Miles of mains, approximate, 10.
 Price gas, 1903: gross \$2; disc. 50c. to 90c.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 100.
 Supplies Montpelier.

Peoples Gas Light Co., Rutland.

Capital stock, \$100,000.
 Bonds, \$100,000; due, 1922; interest, 5 p. c.
 President, Geo. C. Clark.
 Secretary and treas., C. H. West.
 Purchasing agent, Roger W. Polk.
 Superintendent, Roger W. Polk.
 Process manufacture, Coal and Lowe.
 Population, city, 10,000. No. meters, 745.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$1.60; net \$1.36; Fuel, \$1.15; gas engines, \$1, net.
 Annual output, approx., 16,000,000 c. f.
 Candle-power, 18.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 400.
 Supplies Rutland.

St. Albans Gas Light Co., St. Albans.

Capital stock, \$50,000.
 Bonds, \$26,000; due 1904; interest, 6 p. c.
 President, Samuel T. Bodine.
 Secretary, C. W. Butterworth.
 Treasurer, C. W. Butterworth.
 Purchasing agent, J. A. Pearson.
 Superintendent, C. W. Butterworth.
 Process manufacture, Lowe.
 Pop. dist. supplied, 6,239. No. meters, 720.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, gross \$2.10; net \$2. Fuel, gross \$1.60; net \$1.50.
 Annual output, approx., 7,227,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 47 p. c.
 Lowest pressure for gas stoves, 1.9 in.
 Gas stoves in use, 375.
 Supplies St. Albans.

"The fact that the number of lamps in Worcester has been increased and the contract recommended by a unanimous vote of the City Council is perhaps a sufficient answer to the inquiry if the service is satisfactory to the citizens of Worcester."

See advertisement, page xx.

HENRY A. KNIGHT, Superintendent of Street Lights.

E. & F. Fairbanks & Co., St. Johnsbury.

(Private gas and electric plant for supplying scale factory.)

Treasurer, J. C. Clark.

Windsor Gas Light Co., Windsor.

Capital stock, \$20,000; annual div., 1 p. c.

Bond, \$12,000; due 1920; interest, 5 p. c.

President, H. P. McClary.

Treasurer, S. B. McClary.

Superintendent, H. P. McClary.

Process manufacture, Oil.

Pop. dist. supplied, 1,200. No. meters, 85.

Miles of mains, approximate, 2.

Price gas, 1903: Gross, Light, \$2.50; Fuel, \$2.

Annual output, approx., 1,000,000 c. f.

Candle-power, 20.

Lowest pressure for gas stoves, 1 in.

Gas stoves in use, 7.

VIRGINIA.**Alexandria Gas Works, Alexandria.**

(Works owned by city.)

Chairman Light Committee, Wm. Desmond.

Secretary, S. L. Monroe.

Treasurer, T. W. Robinson.

Purchasing agent, S. L. Monroe.

Superintendent, H. M. Hantzmon.

Process manufacture, Coal.

Population, city, 17,000. No. meters, 1,100.

Miles of mains, approximate, 15.

Price gas, 1903: Light and Fuel, gross \$1.30; net \$1.20.

Annual output, approx., 28,000,000 c. f.

Candle-power, 18.

Lowest pressure for gas stoves, 2 in.

Supplies Alexandria.

ELECTRICAL DEPARTMENT.

(Operated as the Alexandria Electric Light Works.)

Arc system, Schuyler, 100 arcs capacity.

No. public arcs, 86; hours lighted, 3,650.

Price arc, Public, per year, \$60.

Price arc, Com'l, per mo., \$10; per year, \$100

Power used, Steam.

Cost coal per ton, \$3.72.

National Gas Division, Berkley.

(A division of the Norfolk, Portsmouth and Newport News Co.)

General supt. and pur. agent, Henry L. Rice.

Superintendent, J. W. Wilson.

Pop. district supplied, 5,000. Meters, 130.

Gas purchased from City Gas Company, Norfolk.

Miles of mains, approximate, 4.5.

Price gas, : Light, gross \$1.40; net \$1.20. Fuel gross \$1.20; net \$1.

Annual output approximate, 3,000,000.

Candle-power, 20.

Proportion sold for fuel purposes, 80 p. c.

Lowest pressure for gas stoves, 1.7 in.

Gas stoves in use, 90.

City Gas Works, Charlottesville.

(Owned by city.)

Bonds outstanding, \$12,000.

Treasurer of city, C. T. Walker.

Superintendent, T. J. Williams.

Purchasing agent, T. J. Williams.

Process manufacture, Coal.

Pop. dist. supplied, 8,000. No. meters, 425.

Miles of mains, approximate, 15.

Price gas, 1903: Light and Fuel, gross \$1. net 80c. to 90c.

Annual output, approx., 15,000,000 c. f.

Candle-power, 16.3.

Proportion sold for fuel purposes, 12 p. c.

Lowest pressure for gas stoves, 1 in.

Gas stoves in use, 40.

Supplies Charlottesville.

City of Danville Light Dept., Danville.

(Owned by the city.)

Chairman Light Committee, R. A. Bendall.

Sec'y and treas. of depts., Frank Talbott.

Pur. agents, F. Talbott and C. A. Ballou.

Supt. gas and elect. depts., C. A. Ballou.

Process manufacture, Coal.

Pop. city, 17,000. No. meters, 915.

Miles of mains, approximate, 12.

Price gas, 1903: Light and Fuel, gross \$1.25; net \$1.

Annual output, approx., 38,000,000 c. f.

Candle-power, 16.

Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

Arc system, T. H., G. E., 140 (1,200 c. p.) and 43 (2,000 c. p.) arcs capacity.

Incand. syst., Gen. Elec., 4,500 lamps capac.

Power generators, 270 kw. capacity.

No. public arcs, 45 (2,000 c. p.); 118 (1,200 c. p.) lighted all dark nights.

Price arc, Commercial, per month, (2,000 c. p., and 1,200 c. p.) \$5.

Price incand. Commercial, per kw-h, 10c.; disc. 20 p. c.

Power used, Water.

City Gas Works, Fredericksburg.

(Owned by the city; operated by the Council Lighting Committee.)

Bonds, \$25,000; interest, 6 p. c.

Chairman Lighting Com., T. McCracken.

Treasurer, R. T. Knox.

Superintendent, W. Fitzpatrick.

Process manufacture, Coal.

Pop. dist. supplied, 6,000. No. meters, 460.

Miles of mains, approximate, 7.

Price gas, 1903: Light and Fuel, gross \$1.25.

Annual output, approx., 6,420,500 c. f.

Candle-power, 18 to 20.

Lowest pressure for gas stoves, 2.5 in.

Welsbach Street Lighting Co. of America

Lynchburg Traction and Light Co., Lynchburg.

Capital stock (covering electric railway and electric lighting), \$750,000; annual div., 3 p. c.

Bonds, \$800,000; due 1931; interest, 5 p. c.

President, R. D. Apperson.

Sec'y and treas., F. H. Shelton, Philadelphia.

Supt. and pur. agent, R. D. Apperson.

Process manufacture, Coal and Water.

Pop. dist. supplied, 28,000. No. meters, 1,000.

Miles of mains, approximate, 17.

Price gas, 1903: Light and Fuel, gross \$1.35; net \$1.25.

Annual output, approx., 25,000,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 2 in.

Supplies Lynchburg, West Lynchburg and Rivermont.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Gen. Elec., 500 (2,000 c. p.) arcs capacity.

Incand. syst., Gen. Elec., 15,000 lamps capac

No. public arcs, 240; hours lighted, all and every night.

Public incand., sliding scale.

Price arc, Public, per year, \$65.70.

Price incand., Public, sliding scale.

Price arc, Commercial, per month, \$7.50.

Price incand., Com'l, per kw-h., 6c. to 12c.

Power used, Steam and Water.

Cost boiler coal per ton, \$2.85.

Newport News Gas Co., Newport News.

Capital stock, \$100,000.

Bonds, \$75,000; due 1927; interest, 6 p. c.

President, W. J. Payne, Richmond.

Secretary, H. H. Dalton.

Treasurer, W. J. Naw.

Supt. and pur. agent, V. B. Barclay.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 25,000. No. meters, 1,152.

Miles of mains, approximate, 11.

Price gas, 1903, gross and net: Light, \$1.60; Fuel, \$1.

No. public Welsbach lamps, 53.

Consumption per burner per hour, 3 c. f.

Contract includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 4,000.

Annual output, approx., 28,000,000 c. f.

Candle-power, 19.

Proportion sold for fuel purposes, 70 p. c.

Lowest pressure for gas stoves, 1.9 in.

Gas stoves in use, 683.

Supplies Newport News.

City Gas Co. of Norfolk, Norfolk.

Capital stock, \$500,000; annual div., 5 p. c.

Bonds, \$500,000; due 1926; interest, 6 p. c.

President, Wm. H. White.

Secretary, F. H. Sawyer.

Treasurer, F. H. Sawyer.

General manager, H. L. Rice.

Superintendent, W. E. Hartman.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 32,000. No. meters, 5,000.

Miles of mains, approximate, 34.

Price gas, 1903: Light, gross \$1.40; net \$1.20.

Fuel, gross \$1.20; net \$1.

Annual output, approx., 140,000,000 c. f.

Candle-power, 21.

Proportion sold for fuel purposes, 45 p. c.

Lowest pressure for gas stoves, 2 in.

Gas appliances in use, 4,500.

Supplies Norfolk and gas company at Berkeley.

Petersburg Gas Co., Petersburg.

Capital stock, \$250,000.

Bonds, \$200,000; due 1930; interest, 5 p. c.

President, R. D. Apperson.

Secretary, F. H. Shelton.

Treasurer, F. H. Shelton.

Pur. agent, and supt., E. C. Pond.

Process manufacture, Coal.

Pop. dist. supplied, 25,000; 12,000 colored.

No. meters, 1,168.

Miles of mains, approximate, 14.

Price gas, 1903: Slid'g scale, \$1.50 to \$1.25 net.

Annual output, approx., 26,500,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 2 in.

Supplies Petersburg.

Portsmouth Gas Co., Portsmouth.

Capital stock, \$80,000; annual div., 4 p. c.

Bonds outstanding, \$21,000; interest, 6 p. c.

President, R. C. Marshall.

Sec'y and treas., E. A. Jones.

Pur. agt. and supt., B. B. Ferguson.

Process manufacture, Coal.

Pop. dist. supplied, 25,000. No. meters, 1,042.

Miles of mains, approximate, 11.

Price gas, 1903: Light, gross \$1.75; net \$1.50

to \$1.65. Fuel, gross \$1.25; net \$1.

Annual output, approx., 24,463,500 c. f.

Candle-power, 17.6.

Proportion sold for fuel purposes, 35 p. c.

Lowest pressure for gas stoves, 1.8 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, American, 100 (2,000 c. p.) arcs capacity.

No. public arcs, 86; hours lighted, 4,000.

Price arc, Public, per year, \$75.

Price arc, Commercial, per month, \$6.50.

Power used, Steam.

Cost boiler fuel per ton, \$3.35.

Richmond City Gas Works, Richmond.

(Owned by the city.)

Capital stock, \$1,000,000.

Operated by the Committee on Light.

Secretary, Wm. P. Knowles.

Treasurer, City Treasurer.

Purchasing agent, Wm. P. Knowles.

Superintendent, Wm. P. Knowles.

Process manufacture, Coal and Lowe.

Population, city, 95,000. No. consumers, 8,862.

Miles of mains, approximate, 83.

Price gas, 1903: Light and Fuel, gross and net \$1.

THE **Welsbach** SYSTEM OF STREET LIGHTING is employed in the following cities: New York City, Philadelphia, Pa., Freehold, N. J., East Orange, N. J., New Haven, Conn., Brookline, Mass., Cambridge, Mass., New Rochelle, N. Y., Omaha, Neb., Springfield, O., Boston, Mass., New Bedford, Mass., Bridgeport, Conn., Dayton, O., Pensacola, Fla., St. Louis, Mo., Providence, R. I., San Francisco, Cal., Yonkers, N. Y., Milwaukee, Wis., Portland, Me., and various other cities. See advertisement, page xx.

No. public lamps, 688.
 Lighted 12 hours each and every night.
 Annual output, approx., 342,350,000 c. f.
 Candle-power, 25.
 Lowest pressure for gas stoves, 1.8 in.

Roanoke Gas and Water Co., Roanoke.

Capital stock, \$600,000; annual div., 3 p. c.
 Bonds, \$100,000; interest, 5 p. c.
 President, H. S. Traut.
 Secretary, H. M. Darnell.
 Treasurer, H. M. Darnell.
 Superintendent, H. H. Baughman.
 Process manufacture, Coal.
 Pop. dist. supplied, 30,000. No. meters, 925.
 Miles of mains, approximate, 23; water, 52.
 Price gas, 1903: Light, gross \$2; net \$1.75.
 Fuel, gross \$1.50; net \$1.25. Power, gross \$1.35; net \$1.10.
 Annual output, approx., 16,000,000 c. f.
 Candle-power, 18.5.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 225.
 Supplies Roanoke.

Staunton Gas Co., Staunton.

(Absorbed the Staunton Light and Power Co.)
 Capital stock, \$45,000.
 Bonds, \$75,000; due 1907-1912; interest, 6 p. c.
 President, E. M. Funkhouser.
 Sec'y and treas., M. N. Bradley.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 1,069.
 Miles of mains, approximate, 28.
 Price gas, 1903: Light and Fuel, gross \$1.25; net \$1.12½.
 Annual output, 26,144,000 c. f.
 Candle-power, 18.

Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 431.

ELECTRICAL DEPARTMENT.

(Lighting plant operated under name of Augusta Electric Co.)
 (Installing new gen. elec. system.)
 Incand. syst., Edison, 80 kw. capacity.
 Price arc, Com'l, per month, (1,200 c.p.) \$7.
 Price incand., Com'l, 16 c. p., per mo. 50c.; per kw., 15c.; disc. 20 p. c.
 Power used, Steam.

Winchester Gas and Electric Light Co., Winchester.

Capital stock, \$35,000.
 President, Chas. H. Dickey.
 Vice-president, Dr. W. S. Love.
 Sec'y and treas., Jas. B. Russell.
 Superintendent, John B. Shull.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,500. No. meters, 325.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, \$1.75. Fuel, \$1.25.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 3 in.
 Gas stoves in use, 70.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Bush, 120 arcs capacity.
 Incandescent system, 2,000 lamps capacity.
 No. public arcs, 73; lighted all night.
 Price arc, Public, per year, \$55.
 Price arc, Commercial, per month, \$5.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.

WASHINGTON.

Whatcom County Railway and Light Co., Bellingham.

Capital stock, pref., \$300,000 (issued, \$175,000) com. issued, \$750,000.
 Semi-annual dividend (pref.) 6 p. c.
 Bonds outstanding, \$450,000; due 1932; int. 5 p. c.
 President, C. D. Wyman.
 Vice-president, J. W. Hallowell.
 Treasurer, A. S. Pratt.
 Secretary, H. R. Hayes.
 Gen. mgrs., Stone and Webster, Boston, Mass.
 Manager, F. E. Frothingham.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 23,500. No. meters, 775.
 Miles of mains, approximate, 20.
 Price gas, 1903: net, Light, \$2; Fuel, \$1.25.
 Annual output, approx., 15,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 65 p. c.
 Lowest pressure for gas stoves, 2 in.

Everett Gas Works, Everett.

(Northwest Light and Power Company, Proprietors.)
 Capital stock, pref., \$25,000; com., \$175,000.

Bonds, \$95,000; due 1904 to 1922; int. 7 p. c.
 President, Charles E. Shepard, Seattle.
 Treasurer, C. H. Kiehl, Seattle.
 Supt. and pur. agt, P. E. Hall, Jr.
 Process manufacture, Coal.
 Pop. dist. supplied, 14,000. No. meters, 620.
 Miles of mains, approximate, 9.5
 Price gas, 1903: Light, gross \$2.10; net \$2.
 Fuel, gross \$2.10; net \$1.85.
 Annual output, approx., 14,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves, hot plates and heaters in use, 612.
 Supplies Everett.

Port Townsend Gas Works, Port Townsend.

Capital stock, \$25,000.
 President, Robert G. Hooker.
 Secretary, John Lillie.
 Treasurer, Robert G. Hooker.
 Purchasing agent, John Lillie.
 Superintendent, John Lillie.
 Process manufacture, Coal.
 Pop. dist. supplied, 3,000. No. meters, 157.

THE INCREASED CANDLE POWER of the Improved **Welsbach** Street Light is all utilized because it is distributed horizontally and below the horizontal plane in every direction. See advertisement, page xx.

Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$3.50; net \$3;
 over 5,000 monthly, \$2.50. Fuel, net \$2.50.
 No. public Welsbach lamps, 5.
 Consumption per burner per hour, 3 c. f.
 Price includes mantles only.
 Lamps are lighted all and every night.
 Annual output, approx., 2,500,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 22 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 47.

Citizens Light and Power Co., Seattle.

Capital stock, \$1,500,000.
 President, Lyman C. Smith.
 Secretary, C. D. Beebe.
 Treasurer, A. K. Hiscock.
 Manager and engineer, C. R. Collins.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 60,000. No. meters, 3,600.
 Miles of mains, approximate, 40.
 Price gas, 1903: Light and Fuel, gross and
 net \$1.25.
 Annual output, approx., 140,000,000 c. f.
 Candle-power, 25.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 600.
 Supplies Seattle and Ballard.

Seattle Gas and Electric Co., Seattle.

Capital stock, \$1,000,000.
 Bonds, \$1,500,000; int., 5 and 6 p. c.
 President, Samuel Hill.
 Vice-president, J. D. Farrell.
 Secretary, E. F. Wells.
 Treasurer, E. F. Wells.
 Assistant to president, Walter Thomas.
 Process manufacture, Coal and Lowe.
 Population dist. supplied, 60,000; city, 100,000.
 No. meters in service, 7,500.
 Miles of mains, approximate, 95.
 Price gas, 1903: Light and Fuel, gross \$1.50;
 net \$1.35.
 Annual output, approx., 175,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stoves, 2 in.
 Supplies Seattle.

Spokane Gas Co., Spokane Falls.

Capital stock, pref. \$50,000; com. auth.
 \$200,000; issued, \$100,000.
 Bonds, \$100,000; due 1911; interest, 6 p. c.
 Secretary and treas., W. A. Aldrich.
 General manager, W. A. Aldrich.

Process manufacture, Coal.
 Pop. dist. supplied, 50,000. No. meters, 2,575.
 Miles of mains, approximate, 32.
 Price gas, 1903, gross \$1.75; net \$1.50.
 Annual output, approx., 50,653,600 c. f.
 Candle-power, 18. No. stoves, 1,527.
 Proportion sold for fuel purposes, 56 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 1,536.

Tacoma Gas and Electric Light Co., Tacoma.

Capital stock, \$300,000.
 Bonds, \$281,000; due 1915; interest, 5 p. c.
 President and gen. mgr., Chas. B. Hurley.
 Vice-president, A. F. Albertson.
 Sec'y and treas., Frederick C. Brewer.
 Process manufacture, Coal.
 Pop. dist. supplied, 30,000. No. meters, 2,621.
 Miles of mains, approximate, 30.
 Price gas, 1903: Light and Fuel, gross \$1.60;
 net \$1.50.
 Annual output, approx., 50,000,000 c. f.
 Candle-power, 17.4.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,100.
 Supplies Tacoma.

Northwestern Gas and Electric Co., Walla Walla.

Capital stock, \$650,000.
 President, W. W. O'Boyle.
 Secretary, S. D. Sinkler.
 Treasurer, Edward V. Kane.
 General manager, Isaac W. Anderson.
 Process manufacture, Coal.
 Pop. dist. supplied, 12,000. No. meters, 700.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$3; net \$2.75.
 Fuel, gross and net \$2.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 95.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Current generated by one 300-kw. General
 Electric alternator; transformers used.
 No. public arcs, 103; hours lighted, 4,000.
 Price arc, Public, per year, \$92; over 75, \$60.
 Price arc, Com'l, per month, \$7.50 to \$12.
 Price incand., Com'l, per mo., 16 c. p., 60c.
 to \$1; per kw-h., 20c. to 6c; disc. 10c.
 Power used, Water.

WEST VIRGINIA.

Kanawa Water and Light Co., Charleston.

(Consolidation of gas, electric and street rail-
 way properties of Charleston.)
 Capital stock, \$600,000.
 Bonds outstanding, \$800,000; int., 5 p. c.
 President, Richard Elkins.
 Treasurer, W. F. Sadler, Jr.
 Superintendent, James E. Hewes.

Process manufacture, Coal.
 Pop. dist. supplied, 17,000.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, \$1.10. Fuel, 50c.
 Annual output, approx., 50,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 3 in.

The **Welsbach** STREET LIGHT is now extensively used on many of
 the principal streets of New York City. See advertisement, page xx.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Gen. Elec., 200 arcs capacity.
 Incand. system, Ft. Wayne, 6,000 lamps capac.
 No. public arcs, 140; lighted 3,600 hours.
 Price arc, Public, per year, \$69.
 Price arc, Com'l, per mo. (1,200 c. p.), \$5.
 Price incand., Commercial, per kw. gross
 15c.; disc., 10 to 60 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$1.

Charlestown Gas and Water Co., Charlestown.

Capital stock, \$12,500.
 Bonds \$5,000; due 1914; interest, 5 p. c.
 President, Joseph Trapnell.
 Secretary, S. S. Dalgarn.
 Treasurer and pur. agent, E. E. Cooke.
 Superintendent, O. M. Darlington.
 Process manufacture, Lowe.
 Pop. dist. supplied, 3,500. No. meters, 200.
 Miles of mains, approximate, 5 to 7.
 Price gas, 1903: Light, \$1.60; fuel, \$1.25.
 Annual output, approx., 2,000,000 c. f.
 Candle-power, 24.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 50.

Clarksburg Gas Co., Clarksburg.

President, N. Goff.
 Secretary, B. M. Despard.
 Treasurer, R. T. Lowndes.
 Purchasing agent, R. T. Lowndes.
 Superintendent, E. F. Lowther.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,000.
 Price gas, 1903: Light, gross \$1.10; net \$1.

ELECTRICAL DEPARTMENT.

(Operated under name of Clarksburg Electric Light Co.)

Arc system, G. E., 100 (1,200 c. p.) arcs capac.
 Incand. system, G. E., 6,000 lamps capacity.
 Power generators, 490 kw. capacity.
 No. public arcs, 66; lighted all night.
 Price arc, Public, per year, \$51.
 Price incand., Public, per year, \$7.50.
 Price incand., Commercial, per month, 25c.
 and 50c.
 Power used, Steam, with gas for fuel.

Grafton Gas and Electric Light Co., Grafton.

Capital stock, \$60,000.
 President, C. F. W. Kunst.
 Secretary, L. Mallonee.
 Treasurer, George Brinkman.
 Pur. agent and supt., C. O. Newlon.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,000. No. meters, 300.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross and net \$1.
 Annual output, approx., 6,000,000 c. f.
 Candle-power 18.
 (Natural gas used for fuel purposes.)

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Incand. system, West'se Warren, 3,600 lamps
 capacity.

Price incand., Com'l, per kw-h., 10c., 8c., 6c.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.30.

Camden Interstate Railway Co., Huntington.

(Consolidation of Consolidated Light and
 Railway Co., and electric light and rail-
 way companies of Ironton, O., Ashland,
 Ky., and Huntington, W. Va.)
 Capital stock, \$1,000,000.
 Bonds, \$1,500,000.
 President, John Graham.
 Secretary, W. F. North.
 Treasurer, Thos. McK. Hays.
 Gen'l manager, John Graham.
 Superintendent, Thos. McK. Hays.
 Process manufacture, Coal.
 Pop. dist. supplied, 17,000. No. meters, 80.
 Miles of mains, approximate, 20.
 Price gas, 1903: Light and Fuel, gross \$1;
 net 75c.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 12 p. c.
 Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.
 Data below for electric plant at Hunt-
 ington.)

Arc system, Gen'l Elec., 150 (2,000 c. p.) arcs
 capacity.
 Incand. system, West'se, 10,000 lamps capac.
 No. public arcs, 84; lighted all and every
 night.
 Price arc, Public, per year, \$90.
 Price arc and incand., Com'l, per kw-h., 5c. to
 10c. with discount.
 Power used, Steam.
 Cost boiler fuel per ton, 55c.

Martinsburg Gas Co., Martinsburg.

Capital stock, \$35,000. Annual div., 4 p. c.
 President, P. E. Deatrick.
 Sec'y and treas., S. V. Fiery.
 Superintendent, George Barbehenn.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 250.
 Miles of mains, approximate, 4.
 Price gas, 1903: Light, gross \$2; net \$1.60.
 Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 3,500,000 c. f.
 Candle-power, 16 to 18.
 Proportion sold for fuel purposes, 40 p. c.
 Gas stoves in use, 80.

**Parkersburg Gas, Electric Light and Street Railway
 Co., Parkersburg.**

President, C. H. Shattuck.
 Secretary, W. W. Van Winkle.
 Treasurer, J. M. Jackson, Jr.
 Purchasing agent, C. H. Shattuck.
 Superintendent, C. H. Shattuck.
 Process manufacture, Coal.
 Population, city, 20,000. No. consumers, 300.
 Price gas, 1903: Light, gross \$1.40; net \$1.25.
 Annual output, approx., 8,862,000 c. f.
 Candle-power, 18.

Extract from report of Department of Public Works, New York City:

"I was very much surprised during a recent visit to Paris to discover that the **Welsbach** had
 superseded electricity on all the grand avenues, especially the Champs Elysees."

See advertisement, page xx.

CHAS. H. T. COLLIS, Commissioner.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, West'se, 220 arcs capacity.
 Incand. system, West'se, 15,000 lamps capac.
 No. public arcs, 150; lighted all and every night.
 Price arc, Public, per lamp, per year, \$75.
 Price incand., Com'l, 8c. per 1,000 watts.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.60.

City of Wheeling Gas Works, Wheeling.

(Owned and operated by the city.)
 President, H. W. McLure.
 Secretary, W. M. Schenck.
 Superintendent, F. F. Thompson.

Process manufacture, Coal.
 Pop. dist. supplied, 40,000. No. meters, 5,200.
 Miles of mains, approximate, 21.
 Price gas, 1903: Light, gross \$1; net 75c.
 Annual output approx., 115,000,000 c. f.
 Candle-power, 16.
 (Natural gas at 18 and 20c. used for fuel purposes.)

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Ft. Wayne, 507 arcs capacity.
 No. public arcs, 510; lighted all night.
 Price arcs, Public, per year, \$52.86.
 Power used, Steam.
 Cost boiler fuel per ton, \$1.50.

WISCONSIN.**Fox River Valley Gas and Electric Co., Appleton.**

Capital stock, pref. \$100,000; com. \$300,000.
 Bonds, \$350,000; due 1921; interest, 5 p. c.
 President, Thomas A. Rockwell.
 Vice-president, Henry C. Wood.
 Secretary, Thomas C. Clark.
 Treasurer, J. H. Jenkins.
 Superintendent, Max H. Cutcheon.
 Manager, E. B. Finch.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 30,000. No. meters, 2,200.
 Miles of mains, approximate, 35.
 Price gas, 1903: Light, gross \$1.65; net \$1.45.
 Fuel, gross \$1.45; net \$1.25.
 Annual output, approx., 60,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 45 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 1,000.
 Cities supplied: Appleton, Neenah, Menasha.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc syst., Gen. Elec., 150 (2,000 c.p.) arcs capac.
 Incand system, Gen. Elec., 3,000 lamps capac.
 Power generators, 230 kw. capacity.
 No. pub. arcs, 150 (2,000 c.p.); lighted 4,000 hrs.
 Price arc, Public, per year, \$78.
 Price per kw., gross 16c.; disc. 4c.
 Power used, Gas.

Ashland Light, Power and Street Railway Co., Ashland.

Capital stock, \$200,000.
 Bonds, \$98,000; due 1916; interest, 5 p. c.
 President, Thos. Bardon.
 Secretary, George F. Merrill.
 Treasurer, George F. Merrill.
 Pur. agent and supt., gas dept., W. C. Morris.
 Pur. agent and supt. elec. dept., M. H. Juhl.
 Process manufacture, Moses (water).
 Pop. dist. supplied, 14,000. No. meters, 590.
 Miles of mains, approximate, 9.5.
 Price gas, 1903: Light, gross \$2; net \$1.80.
 Fuel, gross \$2; net \$1.50.
 No. public lamps, 118. Price per year, \$24.
 Consumption per burner per hour, 5 c. f.

Price includes care, lighting and extinguishing.
 No. hours lamp is lighted per year, 2,000.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 150.
 Supplies Ashland.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 150 (1,200 c. p.) arcs capac.
 Incand. system, T. H., West'se, 3,200 lamps capacity.
 Power generators, 720 kw. capacity.
 No. public arcs, 36; hours lighted, 4,000.
 Price arc, Public, per year, all night \$108; to 12 P. M. \$75.
 Price arc, Commercial, per month, to 12 P. M., \$5.75; all night, \$8.
 Price incand., Public, per kw-h., 15c.
 Price incand., Com'l, per kw-h., 8c. to 15c.
 Power used, Steam.
 Cost boiler fuel, wood slabs, per cord, \$1.65.

Baraboo Lighting Co., Baraboo.

Capital stock, \$75,000.
 Bonds, \$100,000; due 1922; interest 5 p. c.
 President, J. H. Brown.
 Secretary, B. H. Strong.
 Treasurer, Geo. Mayer.
 Gen. supt., R. S. Fuertado.
 Local supt. B. H. Strong.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 400.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$1.50; net \$1.35.
 Fuel, gross \$1.35; net \$1.20.
 Annual output, approx., 7,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 2.5 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Siemens & Halske generators, 3,500 lamps capacity.

THE WELSBACH STREET LIGHT possesses absolute immunity from flickering or smoke in the lanterns; also from bugs and other outside obstructions to illumination. See advertisement, page xx.

No. public arcs, 50; 43, midnight; 7, all night.
 Price arc, Public, per month, \$5 and \$6.25.
 Price incand., Com'l, per kw. 20c.; disc. 10 to 40 p. c.
 Power used, Steam, with coal (\$2.60) and wood as fuel.

Beloit Gas Light and Coke Co., Beloit.

Capital stock, \$67,825.
 Bonds, \$30,000; due 1931.
 President, T. C. Hendley.
 Sec'y and treas., W. A. Hendley.
 Purchasing agent, J. L. Hendley.
 Superintendent, J. L. Hendley.
 Process manufacture, Coal.
 Pop. dist. supplied, 10,500. No. meters, 660.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light and Fuel, gross \$1.70; net \$1.20.
 Annual output, approx., 17,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.

Berlin Gas Co., Berlin.

(In course of construction.)
 Capital stock, \$35,000.
 President, Chas. W. Radford.
 Secretary, Geo. Warnking.
 Treasurer, John C. Challoner.
 Pur. agent and supt., Geo. Warnking.
 Process manufacture, coal.
 Population district supplied, 5,500.
 Price gas, 1904, to be: Light, gross \$2; net \$1.75. Fuel, gross \$1.50; net \$1.25.
 To supply Berlin.

Chippewa Falls Water Works and Lighting Co., Chippewa Falls.

Capital stock, \$200,000.
 Bonds, \$20,000; due 1907; interest, 6 p. c.
 President, J. B. Kehl.
 Secretary, L. M. Newman.
 Treasurer, First National Bank.
 Mgr. and pur. agt., B. D. Viles.
 Process manufacture, Springer.
 Pop. dist. supplied, 10,000. No. meters, 375.
 Miles of mains, approximate, 7.
 Price gas, 1903: Net, Light, \$2; Fuel, \$1.50.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 25.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 75.
 Supplies Chippewa Falls.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Excelsior, 100 (2,000 c. p.) arcs capacity.
 Incand. system, Nat'l, 3,000 lamps capac.
 Power generators, 400 kw. capacity.
 No. public arcs, 78; lighted all and every night, 4,000 hours per year.
 Price arc, Public, per year, \$70.
 Price arc, Commercial, per month, \$5 to \$8.
 Price incandescent, Commercial, per month, 16 c. p., from 40c. to \$1.
 Power used, Water.

Eau Claire Gas Light Co., Eau Claire.

Capital stock, \$40,000.
 Bonds, \$100,000; due 1921; interest, 4 p. c.
 President, David Douglas.
 Sec'y and treas., Chris. Luebkekan.
 Purchasing agent, Chris. Luebkekan.
 Superintendent, David Douglas.
 Process manufacture, Coal.
 Pop. dist. supplied, 20,000. No. meters, 1,250.
 Miles of mains, approximate, 19.
 Price gas, 1903: Light and Fuel, Gross \$1.60; net \$1.50; special \$1.35.
 Annual output, approx., 23,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 550.

Eastern Wisconsin Railway and Light Co., Fond du Lac.

(Successors to Fond du Lac St. Ry. and Light Co.)
 Capital stock, \$500,000.
 Bonds, \$1,500,000; due 1923; interest, 6 p. c.
 President, F. B. Haskins.
 Vice-president and gen'l mgr., T. F. Grover.
 Secretary, F. B. Huntington.
 Treasurer, Wm. E. Cole.
 Purchasing agent, T. F. Grover.
 Process manufacture, Coal.
 Pop. dist. supplied, 20,000. No. meters, 1,400.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$2; net \$1.75. Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 22,066,000 c. f.
 Candle power, 17.
 Proportion sold for fuel purposes, 57 p. c.
 Gas stoves in use, 685.

ELECTRICAL DEPARTMENT.

Arc system, series, 200 (2,000 c. p.) arcs capac.
 Incand. system, alt., 13,000 lamps capacity.
 No. public arcs, 118; lighted all night, moon scale.
 Price arc, Public, per year, \$84.
 Price arc, Commercial, per month, \$4 to \$7.
 Price incand., Commercial, per kw., 16c.
 Power used, Steam.
 Cost coal per ton, \$3.90.

Green Bay Light and Power Co., Green Bay.

Capital stock, pref., \$50,000; com., \$150,000.
 Annual dividend, 6 p. c.
 Bonds, \$175,000; due 1919; interest, 5 p. c.
 President, William Mainland.
 Secretary, H. W. Fisk.
 Treasurer, Sinclair Mainland.
 Purchasing agent, L. C. Mainland.
 Superintendent, L. C. Mainland.
 Process manufacture, Coal and Sutherland.
 Pop. dist. supplied, 18,000. No. meters, 1,075.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$1.50. Fuel, \$1.
 Annual output, approx., 26,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 1,100.

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA furnishes a special Park Lamp, which is particularly suitable for the lighting of public parks and boulevards. See advertisement, page xx.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Ft. Wayne, 200 (2,000 c. p.) and 175 (1,200 c. p.) arcs capacity.

Incandescent system, Ft. Wayne, 5,000 lamps capacity.

No. public arcs, 118; lighted all night, moon scale.

Price arc, Public, per year, \$75.

Price arc, Commercial, per mo., \$4.50 to \$10.

Price incand., Commercial, per month, 16 c. p., 50c. to \$1.25; per kw-h., 12c. to 17c.

Power used, Steam and Water.

Cost boiler fuel per ton, \$2.35.

New Gas Light Co., Janesville.

Capital stock, \$250,000.

Bonds, \$210,500; due 1934; interest, 5 p. c.

President, Hiram Merrill.

Secretary, Louise H. Merrill.

Treasurer, Lewis Lillie.

Pur. agent, J. A. Pearson.

Superintendent, I. F. Wortendyke.

Process manufacture, Lowe.

Pop. dist. supplied, 14,500. No. meters, 2,050.

Miles of mains, approximate, 25.

Price gas, 1903: Light and Fuel, gross \$2; net \$1.25.

Annual output, approx., 36,062,000 c. f.

Candle-power, 25.

Proportion sold for fuel purposes, 30 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use, 1,446.

Supplies Janesville.

Kenosha Gas and Electric Co., Kenosha.

(Yaryan system of hot-water distribution for heating.)

Capital stock, pref. \$100,000; com. \$200,000; annual dividend (pref.) 5 p. c.

Bonds, \$288,500; due 1930; interest, 5 p. c.

President, James Cavanagh.

Vice-president, R. N. Kimball.

Secretary, F. W. Bowen.

Treasurer, James Cavanagh.

Purchasing agent, F. W. Bowen.

Superintendent, R. N. Kimball.

Process manufacture, Lowe.

Pop. dist. supplied, 12,000. No. meters, 2,219.

Miles of mains, approximate, 24.5.

Price gas, 1903: Light, gross \$1.70; net \$1.50

Fuel, gross \$1.20; net \$1.

Annual output, approx., 49,019,000 c. f.

Candle-power, 22.

Proportion sold for fuel purposes, 60 p. c.

Lowest pressure for gas stoves, 2.5 in.

Gas stoves in use 1,300.

Supplies Kenosha.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc syst., West'se 125 (2,000 c. p.) arcs capac.

Incand. syst., West'se, 6,000 lamps capac.

Power generators, 100 kw. capac.

No. public arcs, 120; lighted 2,600 hours.

Price arc, Public, per year, \$78.

Price arc, Commercial, per month, from dusk to 11:30 P. M., \$7.50.

Price incand., Com'l, per kw., 16c., 14c., 10c.

Disc. 2c. per kw.; net 14c., 12c., 8c.

Power used, Steam.

Cost boiler fuel per ton, \$2.65, average.

La Crosse Gas and Electric Co., La Crosse.

Capital stock, pref., \$150,000; com., \$450,000.

Bonds, \$550,000; due 1921; interest, 5 p. c.

President, J. J. Felber.

Secretary, P. M. Gelatt.

Treasurer, George MacMillan.

Manager and pur. agent, George MacMillan.

Supt. and asst. mgr., P. M. Gelatt.

Process manufacture, Coal.

Pop. city supplied, 35,000. No. meters, 1,780.

Miles of mains, approximate, 35.

Price gas, 1903: Light, \$1.25. Fuel, \$1.

Annual output, approx., 44,200,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 63.6 p. c.

Lowest pressure for gas stoves, 2 in.

Gas stoves in use 800.

Supplies La Crosse.

ELECTRICAL DEPARTMENT.

(Operated under name of Commercial Lighting Dept.)

Arc system, Brush, 260 (2,000 c. p.) arcs capac.

Incand. system, Edison, 25,000 lamps capac.

Power generators 12,500 kw. capac.

No. public arcs, 228; hours lighted, 2,300 and 4,000.

Price arc, Public, per year, \$70.

Price arc, Com'l, per kw-h., 10c.

Price incand., Commercial, per kw-h., 10c.

Power used, Steam and Gas Engines.

Cost boiler fuel per ton, \$5.10.

Madison Gas and Electric Co., Madison.

Capital stock, \$400,000.

Bonds, \$350,000; due 1926; interest, 6 p. c.;

debenture scrip, \$100,000; due 1910; 6 p. c.

President, Henry L. Doherty.

Sec'y and treas., C. E. Smith.

Superintendent of mfg., F. M. Richards.

Purchasing agent, G. W. Fallen.

General superintendent, C. H. Williams.

Process manufacture, Coal and Lowe.

Pop. dist. supplied, 22,000. No. meters, 3,147.

Miles of mains, approximate, 35.

Price gas, 1903: Light, gross \$1.75; net \$1.50.

Fuel, gross \$1.50; net \$1.25.

No. public lamps, 44; including 25 Welsbachs.

Price open flame, per year, \$27.

Consumption per burner per hour, 6 c. f.

Price includes repairs, care, lighting and extinguishing.

Lighted from dusk to midnight.

Annual output, approx., 100,000,000 c. f.

Candle-power, 21.

Proportion sold for fuel purposes, 88 p. c.

Lowest pressure for gas stoves, 2.5 in.

Gas stoves in use, 2,600.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, T. H., Manhattan, 250 (1,200 c. p.); 50 (2,000 c. p.) arcs capacity.

THE WELSBACH STREET LIGHTING COMPANY OF AMERICA will furnish complete plants for the lighting of the streets of cities, the gas being furnished by the gas company. See advertisement, page xx.

Incandescent system, Edison, 17,400 lamps capacity.
 Power generators, 850 kw. capac.
 No. public arcs, 150 midnight; 36 all night.
 Price arc, Public, per year, to 12 P. M., \$52; all night, \$72.
 Price arc, Commercial, per mo., to 10 P. M., \$7; 12 P. M., \$8; all night, \$11.
 Price incand., Com'l, Doherty rates.
 Per kw-h., gross 10c. to 16c.
 Power used, Steam and Gas.

Manitowac Gas Light Co., Manitowac.

Capital stock, \$100,000.
 President, Henry Vits.
 Vice-president, M. H. Dempsey.
 Secretary, Julius Lindstadt.
 Treasurer, Emil Teitgen.
 Purchasing agent, John A. Patten.
 Superintendent, Jno. A. Patten.
 Process manufacture, Coal.
 Pop. dist. supplied, 14,000. No. meters, 1,300.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light, gross \$1.50; net \$1.25.
 Fuel, gross \$1.25; net \$1.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 653.
 Supplies Manitowac.

Menominee and Marinette Light and Traction Co., Marinette.

(Consolidation of Menominee Electric Light, Railway and Power Co., Menominee River Gas Co., and Marinette Gas, Electric Light and Street Railway Co.)
 Manager, Edward Daniell.
 Data below for 1902.
 Process manufacture, Patton (oil).
 Pop. dist. supplied, 16,000. No. meters, 150.
 Miles of mains, approximate, 4.5.
 Price gas, 1902: Light, \$1.50. Fuel, \$1.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Brush, 130 arcs capacity.
 Incand. system, Gen. Elec. and Nat'l, 4,000 lamps capacity.
 No. public arcs, 60.
 Lighted by moon scale to midnight.
 Price arc, Public, per year, \$66.
 Price incand., Commercial, per kw-h., 15c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.50 to \$3.

Milwaukee Gas Light Co., Milwaukee.

Capital stock, \$1,380,150.
 Bonds, \$6,080,000; due 1927; interest 4 p. c.
 President, Emerson McMillin.
 Vice-president, E. G. Pratt.
 Secretary, Ewald Haase.
 Treasurer, Ewald Haase.
 Purchasing agent, Henry Harman.
 General manager, E. G. Pratt.
 Engineer, R. B. Brown.
 Process manufacture, Coal and Lowe.

Pop. dist. supplied, 310,000. No. meters, 69,700.
 Miles of mains, approximate, 350.
 Price gas, 1903: Light, gross \$1.20; net \$1 to 80c. Fuel, gross \$1; net 80c. to 60c.
 No. public Welsbach lamps, 2,460.
 Consumption per burner per hour, 5 c. f.
 Contract includes repairs, care, lighting, extinguishing and rental for posts and lanterns.
 No. hours lamp is lighted per year, 3,815.
 Annual output, approx., 1,602,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Supplies Milwaukee and Wauwatosa.

Oshkosh Gas Light Co., Oshkosh.

Capital stock, \$60,000.
 President, Edgar P. Sawyer.
 Secretary, Phil. H. Sawyer.
 Pur. agts., Ed. P. Sawyer, P. H. Sawyer and Wm. Wallen.
 Process manufacture, Coal.
 Pop. dist. supplied, 30,000. No. meters, 3,500.
 Miles of mains, approximate, 30.
 Price gas, 1903: Light, gross \$1.75; net \$1.50.
 Fuel, gross \$1.25; net \$1.
 Annual output, approx., 50,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 45 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 2,000.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Westinghouse, 500 (2,000 c. p.) arcs capacity.
 Incand. system Westinghouse, 3,818 lamps capacity.
 Power generators, 210 kw. capacity.
 Price current per kw. 12c.; disc. up to 7c.
 Power used, two 125 h. p. and two 50 h. p. Westinghouse gas engines.

Portage American Gas Co., Portage.

Capital stock, \$40,000.
 Bonds, \$40,000; due 1916; interest, 6 p. c.
 President, M. T. Alverson.
 Treasurer, Morris W. Stroud.
 Secretary, W. S. Stroud.
 Gen'l supt. and pur. agent, S. P. Curtis.
 Superintendent, W. A. Wilson.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,500. No. meters, 548.
 Miles of mains, approximate, 11.
 Price gas, 1903: Light, \$1.50; Fuel, \$1.30.
 No. public Welsbach lamps, 49.
 Consumption per burner per hour, 3 c. f.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 9,231,900 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, 450.
 Supplies Portage.

Racine Gas Light Co., Racine.

Capital stock, \$500,000.
 Bonds, \$700,000; due 1929; interest, 5 p. c.
 President, John I. Beggs.

The "Candle Power" given by the IMPROVED **Welsbach STREET LIGHT** is more efficient for street illuminations than that obtained by any other means. See advertisement, page XX.

Secretary, H. H. Hyde.
 Treasurer, F. G. Bigelow.
 Manager and pur. agt, Henry H. Hyde.
 Superintendent, W. A. Leuenberger.
 Process manufacture, Coal.
 Pop. dist. supplied, 32,594. No. meters, 7,298.
 Miles of mains, approximate, 51.
 Price gas, 1903: Light, gross \$1.40; net \$1.20.
 Fuel, gross \$1.20; net \$1 to 60c.
 Annual output, approx., 125,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 66 p. c.
 Lowest pressure for gas stoves, 2 in.

Ripon Light and Water Co., Ripon.

Capital stock, \$100,000; annual div., 4 p. c.
 Bonds, \$71,000, water plant only; due 1910.
 Int., 6 p. c.
 President, C. P. Haseltine.
 Vice-president, George W. Carter.
 Secretary, W. E. Haseltine.
 Treasurer, W. E. Haseltine.
 Purchasing agent, W. E. Haseltine.
 Superintendent, W. E. Haseltine.
 Process manufacture, Patton (oil).
 Pop. dist. supplied, 5,000. No. meters, 400.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.
 No. public lamps, 5. \$18 per year.
 Consumption per burner per hour, 4 c. f.
 No. hours lighted, 2,200.
 Annual output, approx., 4,500,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 175.
 Supplies Ripon.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, Western Electric, 75 (2,000 c. p.) arcs capacity.
 Incand. system, Ft. Wayne, 1,200 lamps capac.
 No. public arcs, 59; lighted 1,500 hours.
 Price arc, Public, per year, \$70.
 Price arc, Com'l, per month, \$5.
 Price incand., Com'l, per kw-h., gross 18c.
 Disc. 30 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.25.

Sheboygan Gas Light Co., Sheboygan.

Capital stock, \$150,000.
 President, J. T. Lynn.
 Secretary, Howard J. Leshner.
 Treasurer, Howard J. Leshner.
 Purchasing agent, J. T. Lynn Co.
 Superintendent, J. K. Russell.
 Process manufacture, Coal.
 Pop. dist. supplied, 25,000. No. meters, 1,500.
 Miles of mains, approx., 20.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.35.
 Annual output, approx., 24,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 2 in.

Stevens Point Lighting Co., Stevens Point.

Capital stock, \$100,000.
 Bonds, \$125,000; due 1919; interest, 5 p. c.
 President, Wm. Mainland.
 Sec'y and treas., Sinclair Mainland.
 Superintendent, Roderick McKenzie.
 Process manufacture, Sutherland.
 Pop. dist. supplied, 10,000. No. meters, 425.
 Miles of mains, approximate, 7.5.
 Price gas, 1903: Light, gross \$2; net \$1.75.
 Fuel, gross \$1.50; net \$1.25.
 Annual output, 7,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 125.
 Supplies Stevens Point.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc syst., Hartford, 100 (2,000 c. p.) arcs capac.
 Incand. system, T. H., 2,600 lamps capacity.
 No. public arcs, 74; lighted by moon scale.
 Price arc, Public, per year, \$78.
 Price arc, Commercial, per mo. (2,000 c. p.) \$5.
 Price incand., Commercial, per mo., 16 c. p. 60c. to \$1.25.
 Price per kw. gross, 18c. Disc. 3c.
 Power used, Steam.
 Cost boiler fuel, coal, per ton, \$3.80.

Watertown Gas Co., Watertown.

Capital stock, \$50,000.
 President, Wm. C. Stone.
 Vice-president, Frederick Miller.
 Secretary, George Hawkins.
 Treasurer, George Hawkins.
 Purchasing agent, Charles Mackay.
 Superintendent, Charles Mackay.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,500. No. meters, 800.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, gross \$1.60; net \$1.25.
 Fuel, gross \$1.40; net \$1.25.
 No. public Welsbach lamps, 62.
 Price per 1,000, \$1.60.
 Consumption per burner per hour, 5 c. f.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use 350.

Waukesha Gas and Electric Co., Waukesha.

Capital stock, \$60,000.
 Bonds, \$90,000; due 1917; interest, 6 p. c.
 President, F. H. Putney.
 Secretary, F. W. Haight.
 General supt. and pur. agent, S. P. Curtis, Philadelphia, Pa.
 Superintendent, H. M. Buck.
 Process manufacture, Coal.
 Pop. dist. suppl'd, 8,000.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light and Fuel, gross \$1.40; net \$1.30.

Beware of infringements and imitations. **THE WELSBACH STREET LIGHTING COMPANY OF AMERICA** is the sole proprietor of **THE WELSBACH SYSTEM OF STREET LIGHTING**. See advertisement, page xx.

Annual output, approx., 27,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2.2 in.
 Gas stoves in use, 672.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Brush, 92 (1,200 c. p.) arcs capac.
 Incand. system, G. E., 1,500 lamps capac.
 No. public arcs, 92; lighted 3,987 hours.
 Price arc, Public, per year \$85.
 Price incand., Commercial, per kw-h., 15c.; discounts, 10 to 20 p. c.
 Power used, Steam and Gas.
 Cost boiler fuel per ton, \$3.15.

Wausau Gas Light and Coke Co., Wausau.

Capital stock, \$60,000.
 President, D. L. Plumer.
 Secretary, A. J. Swope.
 Treasurer, A. J. Swope.
 Gen'l mgr. and pur. agent, J. H. Farrell.
 Superintendent, J. H. Farrell.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 498.
 Miles of mains approximate, 6.
 Price gas, 1903; Light, gross \$2; net \$1.80.
 Fuel, \$1.50.
 Annual output, approx., 12,500,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 80.
 Supplies Wausau.

Wauwatosa Gas Co., Wauwatosa.

Capital stock, \$50,000.
 President, E. G. Pratt.
 Secretary, E. Haase.
 Treasurer, E. Haase.
 Purchases gas from Milwaukee Gas Light Co.
 Pop. dist. supplied, 3,000. No. meters, 330.

Miles of mains, approximate, 7.
 Price gas, 1903: Light and Fuel, gross \$1.40; net \$1.20.
 Annual output, approx., 7,000,000 c. f.
 Candle-power, 20.
 Gas stoves in use 220.

Superior Water, Light and Power Co., West Superior.

(Capitalisation includes gas, electric and water departments.)
 Capital stock, \$1,000,000.
 Bonds, \$1,200,000; due 1931; interest, 4 p. c.
 President, W. R. Merriam, Washington, D. C.
 Secretary, W. H. Winslow.
 Treasurer, V. M. Watkins, St. Paul.
 Purchasing agent, W. H. Winslow.
 General manager, B. F. Ellison.
 Process manufacture, Springer (remodeled).
 Pop. dist. supplied, 20,000. No. meters, 1,750.
 Miles of mains, approximate, 18.
 Price gas, 1904: Light, gross \$1.60; net \$1.40.
 Fuel, gross \$1.20; net \$1.
 Annual output, approx., 30,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 800.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)

Arc system, T. H., 385 (2,000 c. p.) arcs capac.
 Incandescent system, T. H., West'se, 12,000 lamps capacity.
 Power generators 60 kw. capacity.
 No. public arcs, 175; hours lighted, 4,000.
 Price arc, Public, per year, \$75.
 Price arc, Commercial, per mo., to 10 P. M., \$6.50; to 12 P. M., \$7.50; all night, \$8.80.
 Price incand., Commercial, per mo., 16 c. p., to 10 P. M., 80c.; to 12 P. M., \$1; all night, \$1.65; per kw., 12.5c. Disc. 20 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$3.50.

WYOMING.

Cheyenne Light, Fuel and Power Co., Cheyenne.

Capital stock, \$250,000.
 Bonds, \$175,000; due 1925; interest, 5 p. c.
 President, F. E. Warren.
 Secretary, C. M. Smith.
 Treasurer, C. M. Smith.
 General manager, D. F. Miner.
 Process manufacture, Coal.
 Pop. dist. supplied, 16,000. No. meters, 325.
 Miles of mains approximate, 6.
 Price gas 1903: Light, gross \$3; net \$1 to \$2.70. Fuel, gross \$1.50; net \$1 to \$1.50.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 50 p. c.

Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 50.

ELECTRICAL DEPARTMENT.

Arc system, Brush, 160 (2,000 c. p.) arcs capac.
 Incand. system, Gen. Elec. 6,000 lamps capac.
 Power generators 75 kw.
 No. public arcs, 75; lighted all night.
 Price arc, Public, per year, \$129.80.
 Price arc, Com'l, per month, (2,000 c. p.) \$9.10.
 Price incand., Com'l, per month, 16 c. p. 75c.
 per kw., 20c.; disc. 10 to 60 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$2.75.

The perfection of the service rendered where the IMPROVED **Welsbach** STREET LIGHT is in use has been particularly noted. See advertisement, page XX.

BRITISH COLUMBIA.**Nanaimo Gas Co., Ltd., Nanaimo.**

Capital stock, \$62,000.
 Bonds outstanding, \$8,000; interest, 6 p. c.
 President, George L. Milne.
 Secretary, Wm. K. Leighton.
 Treasurer, Wm. K. Leighton.
 Purchasing agent, Wm. K. Leighton.
 Superintendent, Thomas Walkey.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 250.
 Miles of mains, approximate, 3.
 Price gas, 1903: Light, gross \$2.50. Fuel, \$1.25.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 1 in.
 Gas stoves in use, 6.

Nelson Coke and Gas Co., Ltd., Nelson.

Capital stock, pref. \$75,000; com. \$175,000.
 President, W. H. Pearson, Sr.
 Secretary, A. J. Payne.
 Treasurer, W. H. Pearson, Jr.
 Manager and pur. agent, A. J. Payne.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,000. No. meters, 223.
 Miles of mains, approximate, 4.
 Price gas: 1903: Light, gross \$3; net \$2.25.
 Fuel, gross \$2.50; net \$1.75. Manufacturing purposes, gross \$2.25; net \$1.50.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 75.

New Westminster Gas Co., New Westminster.

Owner, James Cunningham.
 Secretary and treas., James Cunningham.
 Purchasing agent, W. E. Brown.
 Superintendent and mgr., W. E. Brown.
 Process manufacture, Coal.
 Pop. dist. supplied, 4,000. No. meters, 223.
 Miles of mains, approx., 5.
 Price gas, 1903: Light gross, \$2.50; net \$2-\$1.50.
 Fuel, gross, \$2.50, net \$1.50.
 Annual output, approx., 8,000,000.
 Candle-power, 19.49.
 Proportion sold for fuel purposes, 10.
 Lowest pressure for gas stoves, 1.3.

Vancouver Gas Co., Ltd., Vancouver.

Capital stock, \$500,000.
 Bonds, \$300,000; due 1929; interest, 5 p. c.
 President, J. H. Hoare.
 Secretary and treas., B. W. Ferris.
 Purchasing agent, J. H. Hoare.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 900.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$2.00; net \$1.75.
 Fuel, gross \$1.50, net \$1.35.
 Annual output, approx., 24,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 300.
 Supplies Vancouver.

Victoria Gas Co., Limited, Victoria.

Capital stock, \$250,000.
 President, C. W. R. Thomson.
 Secretary, C. W. R. Thomson.
 Treasurer, C. W. R. Thomson.
 Purchasing agent, C. W. R. Thomson.
 Superintendent, F. H. Hewlings.
 Process manufacture, Coal.
 Pop. dist. supplied, 17,000. No. meters, 1,000.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, gross \$2; net \$1.50.
 Fuel, \$1.25 to \$1.
 Annual output, approx., 25,000,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.5 in.

MANITOBA.**Calgary Gas Co., Ltd., Calgary.**

(New company. Expect to turn on gas June 1, 1904.)
 Capital stock, \$100,000.
 Chairman, James Muir, K. C.
 Secretary and treasurer, David Morris.
 Engineer and gen'l manager, David Morris.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000.
 Miles of mains, approx., 6.
 Price gas to be: Light, \$2; Fuel, \$1.75.
 Annual output estimated to be 6,000,000 c. f.
 Candle-power, 20.
 Supplies Calgary and Alberta.

Winnipeg Electric Street Railway Co., Winnipeg.

Capital stock, \$1,500,000; annual div., 6 p. c.
 Bonds, \$1,000,000; due 1928; interest, 5 p. c.
 President, Wm. MacKenzie.
 Vice-president, Wm. Whyte.
 Secretary, F. Morton Morse.
 Treasurer, F. Morton Morse.
 Pur. agent and supt., W. Phillips.
 Process manf., Merrifield-Westcott-Pearson.
 Pop. dist. supplied, 70,000. No. meters, 2,200.
 Miles of mains, approximate, 40.
 Price gas, 1903: Light, gross \$2; net \$1.70.
 Fuel, gross \$2; net \$1.50.
 Annual output, approx., 40,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Supplies Winnipeg.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Incand. system, Royal Elec., T. H. and Nat'l
 at old plant, Gen. Elec. at new plant,
 42,000 lamps capacity.
 Power generators, 1,600 kw. capacity.
 Price arc, Commercial, per month, \$10.
 Price incandescent, Com'l, per kw-h, 20c.
 Power used, Steam.
 Cost wood per cord, \$5.

NEW BRUNSWICK.**Fredericton Gas Light Co., Fredericton.**

Capital stock, pref. \$5,850; com. \$44,150.
 President, Hon. F. P. Thompson.

Owing to the shape of the Welsbach Mantle, the illumination of the street from an IMPROVED **Welsbach STREET LIGHT** is equal in every direction. This is not the case with other methods of lighting. See advertisement, page xx.

Secretary, Frank I. Morrison.
 Treasurer, Frank I. Morrison.
 Purchasing agent, Frank I. Morrison.
 Supt. gas dept., W. K. White.
 Supt. elect. dept., Wm. H. White.
 Process manufacture, Coal.
 Pop. dist. supplied, 7,117. No. meters, 260.
 Miles of mains, approximate, 8.5.
 Price gas, 1903: Light, gross \$3; net \$2.25 and
 \$2.70. Fuel, \$1.50.
 No. public lamps, 2. Price per year, \$30.
 Consumption per burner per hour, 6 c. f.
 Price includes repairs, care, lighting and
 extinguishing.
 No. hours lamp is lighted per year, 3,000.
 Annual output, approx., 3,500,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes small.
 Lowest pressure for gas stoves, 0.8 in.
 Supplies Fredericton.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Incand. system, 1,040 lamps capacity.
 Price incand., Commercial, per kw. gross,
 15c.; disc, 10 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, varies.
 (City purchased old electric plant and now
 do their own street lighting.)

City of Moncton Water and Light Dept., Moncton.

(Owned by city.)
 Valued at \$450,000.
 Bonds outstanding, \$350,000 at 4 p. c.; \$60,000
 at 6 p. c.
 Chairman Water and Light Committee, Dr.
 L. N. Bourque.
 Treasurer, L. B. Lawson.
 Purchasing agent, John Edington.
 Superintendent, John Edington.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000. No. meters, 174.
 Miles of mains, approximate, 4.73.
 Price gas, 1903: Light, gross \$2; net \$1.60.
 Fuel gross and net, \$1.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 10.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 10.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 100 (2,000 c. p.) and 50 (1,200
 c. p.) arcs capacity.
 Incand. system, S. K. C., 5,500 lamps capac.
 Power generators, 330 kw. capac.
 No. public arcs, 59; lighted all and every
 night.
 No. public incandescents, 3.
 Price arc, Public, per year, \$100.
 Price arc, Commercial, per night, 30c.
 Price incand., Com'l, per night, 3c.; per
 kw-h., 12c.; disc. 5 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.72.

The St. John Railway Co., St. John.

Sec'y and treas., W. Z. Earle.

NEWFOUNDLAND.

St. Johns Gas Light Co., St. Johns.

Capital stock, auth., \$98,000; issued, \$76,000;
 annual div., 8 p. c.
 President, Hon. James Baird.
 Secretary, W. H. Rennie.
 Treasurer, W. H. Rennie.
 Purchasing agent, W. H. Rennie.
 Process manufacture, Coal.
 Pop. dist. supplied, 31,000. No. meters, 1,100.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light, gross \$2; net \$1.50.
 Fuel, \$1.
 No. public Welsbach lamps, 20.
 No. hours lamp is lighted per year, 3,000.
 Annual output, approx., 22,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.5 in.

NOVA SCOTIA.

Halifax Electric Tramway Co., Limited, Halifax.

Capital stock, \$1,350,000; annual div. 5 p. c.
 Bonds, \$600,000; due, 1915; interest, 5 p. c.
 President, Hon. David MacKeen.
 Secretary and treas., W. J. De Blois.
 Supt. and gen'l mgr., J. W. Crosby.
 Process manufacture, Coal and Water.
 Pop. dist. supplied, 45,000. No. meters, 2,000.
 Miles of mains, approximate, 35.
 Price gas, 1903: Light, gross \$2.50; net \$2.
 Fuel, gross \$1.90; net \$1.
 Annual output, approx., 55,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.7 in.
 Gas stoves in use, 40.
 Supplies Halifax.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, G. E., 400 (2,000 c. p.) capac.
 Incand. system, Alt., 4,000 lamps capac.
 Power generators, 1,000 h. p.
 No. public arcs, 351.
 Price arc public, per year, \$65.
 Price incand. Com'l per kw., 15c.; disc. 10 to
 16½ p. c.
 Power used, Steam.
 Cost of boiler coal, per ton, \$3.50.

Pictou Gas Works, Pictou.

(Purchased by Town of Pictou.)
 Manager, Fred. McLellan.
 Process manufacture, Coal.
 Pop. dist. supplied, 3,000.
 Miles of mains, approximate, 7.
 Price gas, 1903: Light, gross \$2.50. Fuel, \$1.25.
 No. public lamps, 32. Price per year, \$25.
 Consumption per burner per hour, 5 c. f.
 Price does not include repairs, care, lighting
 and extinguishing.
 Lighted all night.
 Annual output, approximate, 2,500,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 1 p. c.
 Lowest pressure for gas stoves, 1.5 in.

THE Welsbach SYSTEM distributes the light over all portions of the
 area illuminated. See advertisement, page xx.

Yarmouth Gas Light Co., Limited, Yarmouth.

Capital stock, pref. \$40,000; com. \$25,000.
 Bonds outstanding, \$30,000.
 President, S. A. Crowell.
 Secretary, Thos. Killam.
 Treasurer, Thos. Killam.
 Purchasing agent, Thos. Killam.
 Superintendent, Jas. D. Burton.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 500.
 Price gas, 1903: Light, \$1.75. Fuel, \$1.50.
 No. public lamps, 10. Price per year, \$13.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 17.
 Proportion sold for fuel purposes, 10 p. c.
 (Electric plant sold to town.)

ONTARIO.**Barrie Gas Co., Barrie.**

Capital stock, \$33,560.
 President, F. A. Lett.
 Secretary, James L. Burton.
 Treasurer, James L. Burton.
 Purchasing agent James L. Burton.
 Superintendent, F. L. Burton.
 Process manufacture, Water-gas.
 Pop. dist. supplied, 6,500. No. meters, 252.
 Miles of mains, approximate, 4.5.
 Price gas, 1903: Light, gross \$2.50; net \$1.75.
 Fuel, \$1.50.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 21.
 Proportion sold for fuel purposes, 36 p. c.
 Lowest pressure for gas stoves, 1.6 in.
 Gas stoves in use, 25.
 Supplies Barrie.

ELECTRICAL DEPARTMENT.

(Sold to town of Barrie.)

Belleville Gas Co., Belleville.

Capital stock, \$80,000.
 President, J. W. Johnson.
 Sec'y and treas., W. J. Thompson.
 Superintendent, J. Littlewood.
 Process manufacture, Lowe.
 Pop. dist. supplied, 10,000. No. meters, 700.
 Price gas, 1903: Light, gross \$1.75; net \$1.50.
 Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 1.4 in.
 (Electrical Department discontinued.)

Berlin Gas Co., Berlin.

(Owned by city.)
 Process manufacture, Peter English.
 Pop. dist. supplied, 10,000. No. meters, 520.
 Miles of mains, approximate, 8.3.
 Price gas, 1903: Light, net \$1.50 to \$1.85. Fuel, net \$1.25.
 No. public lamps, 24. Price per year, \$25.
 Consumption per burner per hour, 4 c. f.
 Price includes care, lighting and extinguishing.
 Lighted every night, all night.

Annual output, approx., 10,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 2.8 in.
 Gas stoves in use, 25.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Ball, 87 (1,200 c. p.) arcs capac.
 Incand. system, S. K. C., and Can. G. E.
 No. public arcs, 81; lighted all and every night.
 Price arc, Public, per year, \$73.
 Price arc, Com'l, per mo. (2,000 c. p.), \$6; per night (1,200 c. p.), 25c; per kw., 15c.
 Price incand., Com'l, per kw-h., net 12c. to 15c.; gross 20c; disc. 25 to 40 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4 to \$4.50.

Brantford Gas Co., Ltd., Brantford.

Capital stock, pref. \$23,000; com. \$61,400.
 President, H. H. Powell.
 Secretary, A. W. Moore.
 Purchasing agent, H. H. Powell.
 Manager, H. H. Powell.
 Process manufacture, Lowe.
 Pop. dist. supplied, 18,000. No. meters, 1,200.
 Price gas, 1904: Light, gross \$1.60; net \$1.50.
 Fuel, \$1.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 19.
 Proportion sold for fuel purposes, 45 p. c.
 Lowest pressure for gas stoves, 1.6 in.

The Brockville Light and Power Dept., Brockville.

(Municipal plant.)
 Chairman Board of Com'rs, R. Bowie.
 Sec'y and treas., W. H. Dowsley.
 Pur. agt and supt, C. T. Wilkinson.
 Process manufacture, Merrified-Westcott, Pearson and Lowe.
 Pop. dist. supplied, 9,000. No. meters, 950.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light, gross \$2.50; net \$2.
 Fuel, gross, \$1.25; net \$1.
 No. public lamps, 80. Price per year, \$22.
 Consumption per burner per hour, 4 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Lighted 3,800 hours.
 Annual output, approx., 20,000,000 c. f.
 Candle-power, 21.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 400.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc syst., Gen. Elec. (2,000 c. p.), 75 arcs cap.
 Incand. system, C. G. E., 7,000 lamps capac.
 No. public arcs, 54; hours lighted, 3,800.
 No. public incand., 28; hours lighted, 3,800.
 Price arc, Public, per year, \$86.50.
 Price incand., Public, per year, \$22.
 Price arc and incand. Com'l per kw., gross 20c.; disc. 50 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$3.50.

"The metropolitan appearance of the lamp itself, together with the clear, white, steady, powerful light, put the **Welsbach** clear in the lead of anything on the market to-day for the purpose of street lighting."

(Signed) W. W. BINGHAM, President, City Council, Omaha.

See advertisement, page xx.

Chatham Gas Co., Ltd., Chatham.

Capital stock, \$100,000.
 Bonds, \$18,000; due \$1,000 yearly; int., 5 p. c.
 President, Wm. Ball.
 Secretary, P. S. Coate.
 Treasurer, P. S. Coate.
 Purchasing agent, P. S. Coate.
 Superintendent, John Head.
 Process manufacture, Coal.
 Pop. dist. supplied, 6,000. No. meters, 850.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$2.50; net \$1.25 to \$1.75. Fuel, gross \$1.25; net 85c. to \$1.
 Annual output, approx., 30,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 350.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Incandescent system, S. K. C., Royal and Warren, 4,800 lamps capacity.
 Price arc, Commercial, per month, \$5.
 Price incand., Com'l, per mo., 16 c. p., 40c. to 65c.
 Price per kw., gross 20c.; disc. 25 to 60 p. c.
 Power used, Gas Engines.
 Cost boiler fuel per ton, \$3.65.

Cobourg Gas Light Co., Cobourg.

Capital stock, \$20,000.
 President, Thomas Littlehales, Syracuse, N. Y.
 Purchasing agent, Thomas Littlehales.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 170.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$3; net \$2 to \$1.80.
 Fuel, gross \$3; net \$1.25.
 Annual output, approx., 2,500,000 c. f.
 Candle-power, 18 to 19.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1 in.
 Gas stoves in use, 30.

Cornwall Gas Works, Cornwall.

(Operated by the Stormont Electric Light and Power Co.)
 Capital stock of combined works, \$50,000.
 Annual div., 7 p. c.
 Bonds outstanding, \$6,000.
 President, James Leitch, K. C.
 Secretary, J. Skelton.
 Treasurer, J. Skelton.
 Superintendent, W. H. Armstrong.
 Process manufacture, Lowe.
 Pop. dist., 7,000. No. meters, gas 200; elec. 20.
 Miles of mains, approximate, 3.
 Price gas, 1903: Light, gross \$2 to \$2.50. Fuel, \$1.25 to \$1.50.
 Annual output, approx., 4,500,000 c. f.
 Candle-power, 18 to 20.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 30.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Stormont Electric Light and Power Co.)
 Incand. system, West'se, 2,000 lamps capac.

No. public arcs, 14 (2,000 c. p.)
 No. public incandescents, 100; lighted all and every night.
 Price arc Public, per year, \$70, all night.
 Price incand., Public, per year, 25 c. p., \$15.
 Price incandescent, Commercial, per month, 16 c. p., 60c. to 70c.; 25 c. p., 90c. to \$1.
 Power used, Water. Current from Davis Power House, Milles Rocks.
 Cost boiler fuel per ton, \$3.50.

Deseronta Gas and Water Co., Deseronta.

Capital stock, \$5,000.
 President, E. Walter Rathbun.
 Secretary, C. A. Millener.
 Treasurer, C. A. Millener.
 Superintendent, R. W. Lloyd.
 Process manufacture, Springer.
 Pop. dist. supplied, 3,500. No. meters, 200.
 Miles of mains, approximate, 5.
 Price gas, 1904: Light, gross \$1.75. Fuel, \$1.
 No. public lamps, 52. Price per year, \$18.
 Consumption per burner per hour, 5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 2,000.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 10 p. c.
 Lowest pressure for gas stoves, 2.3 in.

Dundas Gas Light Co., Dundas.

Capital stock, \$10,000.
 Owner, L. P. Spittal.
 Process manufacture, English.
 Pop. dist. supplied, 3,500. No. meters, 140.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, gross \$2; net \$1.80.
 Fuel, \$1.50.
 Annual output, approx., 1,300,000 c. f.
 Candle-power, 19.5.
 Proportion sold for fuel purposes, 12 p. c.
 Lowest pressure for gas stoves, 1.5 in.

Galt Gas Light Co., Ltd., Galt.

Capital stock, auth., \$100,000; annual div., 5 p. c.
 President, D. Spiers.
 Secretary, Osborne Spiers.
 Treasurer, Osborne Spiers.
 Purchasing agent, D. Spiers.
 Superintendent, Robert Elliott.
 Process manufacture, Peter English.
 Pop. dist. supplied, 8,500. No. meters, 950.
 Miles of mains, approximate, 15.
 Price gas, 1903: Light, net \$1.50 to \$2.
 Fuel, gross \$1.25; net \$1.12.
 Annual output, approx. 20,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 1 in.
 Gas stoves in use, 500.
 Supplies Galt.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, T. H., 100 (2,000 c. p.) arcs capac.
 Incand. system, Can. Gen., S.K.C., 4,000 lamps capacity.

THE Welsbach STREET LIGHT gives the highest candle power of light for the least money. See advertisement, page xx.

No. public arcs, 70; lighted to 12 P. M., moon scale, and from 5 o'clock till daylight.
 Price arc, Public, per year, \$66.50.
 Price arc, Commercial, per month, \$4.33.
 Price incand., Com'l, per kw., 10c., 12c., 13c. and 14c.
 Power used, Steam and Water.
 Cost of boiler fuel per ton, \$5 to \$5.50.

Guelph Light and Power Co., Guelph.

(Sold to municipal corporation.)
 Process manufacture, Lowe.
 Pop. dist. supplied, 12,000. No. meters, 800.
 Price gas: Light, gross \$2; net \$1.50 to \$1.80.
 Fuel, gross \$2; net \$1.
 Annual output, approx., 16,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Brush, Ball, Reliance, 190 (2,000 c. p.) arcs capacity.
 Incand. system, Can. Gen., 2,000 lamps capac.
 No. public arcs, 90; lighted by moon scale.
 Price arc, Public, per year, \$65.
 Price arc, Commercial, per night, 20c.
 Price incandescent, Commercial, per kw-h., 20c.; with 40, 30 and 25 p. c. discounts.
 Power used, Water, Steam.
 Cost boiler fuel per ton, \$3.75.

Hamilton Gas-Light Co., Hamilton.

Capital stock, \$255,000.
 Bonds outstanding, \$45,000.
 President, F. W. Gates, Sr.
 Purchasing agent, R. A. Wallace.
 Superintendent, R. A. Wallace.
 Process manufacture, Coal.
 Pop. dist. sup., 55,000.
 Miles of mains, approximate, 45.
 Price gas, 1903: Light and Fuel, gross \$1.50; net \$1.
 Annual output, approx., 115,000,000 c. f.
 Candle-power, 18.25.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.5 in.

Ingersoll Gas Light Co., Ingersoll.

(Plant leased to W. M. Bowman.)
 Capital stock, \$40,000.
 President, W. C. Noxon.
 Purchasing agent, W. C. Noxon.
 Process manufacture, English.
 Pop. dist. supplied, 5,000. No. meters, 300.
 Price gas, 1902: Light, net \$1.10 to \$1.50. Fuel, net \$1.08.
 Annual output, approx., 6,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 30 p. c.
 Lowest pressure for gas stoves, 1.8 in.

Kingston Light, Heat and Power Co., Kingston.

Capital stock, \$125,000.
 Bonds, \$100,000; due 1917; interest, 5 p. c.
 President, I. A. Breck.
 Secretary, E. Moore.

Treasurer, E. Moore.
 Purchasing agent, F. A. Folger, Sr.
 Superintendent, F. A. Folger.
 Process manufacture, Lowe, Economical.
 Pop. dist. supplied, 20,000. No. meters, 1,300.
 Miles of mains, approximate, 10.
 Price gas, 1903: Light, gross \$2.50; net \$2.
 Fuel, gross \$2.50; net \$1.
 Annual output, approx., 18,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, Ft. Wayne, 140 (2,000 c. p.) arcs capacity.
 Incandescent system, T. H., Edison, 5,000 lamps capacity.
 No. public arcs, 115; lighted by moon scale.
 Price arc, Public, per year, \$72.66.
 Price incand., Commercial, per kw-h., 20c.; disc., 30 p. c.
 Power used, Steam.
 Cost boiler fuel per ton, \$2.70.

Listowel Gas and Electric Light Co., Ltd., Listowel.

Capital stock, auth., \$25,000; issued, \$20,000.
 President, John C. Hay.
 Secretary, John C. Hay.
 Treasurer, John C. Hay.
 Superintendent, C. J. Wilson.
 Process manufacture, Oil.
 Pop. dist. supplied, 3,000. No. meters, 200.
 Miles of mains, approximate, 4.
 Price gas, 1903: Light & Fuel, \$2.50, disc. 10 p. c.
 Annual output, approx., 2,000,000 c. f.
 Candle-power, 21.
 Proportion sold for fuel purposes, 5 p. c.
 Lowest pressure for gas stoves, 1.3 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, Reliance, 35 arcs capacity.
 No. public arcs, 23; lighted 300 nights until 12 o'clock.
 Price arc, Public, per year, \$45.
 Power used, Steam.
 Cost wood per cord, \$1.50.

City Gas Co. of London, London.

Capital stock, \$240,000.
 President, Maj. Thos. Beattie.
 Secretary, R. W. Kidner.
 Treasurer, R. W. Kidner.
 Purchasing agent, Chas. Forbes.
 Managing director, Jas. C. Duffield.
 Superintendent, C. Forbes.
 Proc. manf., Coal and Water (Duffield pat.)
 Pop. dist. supplied, 40,000. No. meters, 3,000.
 Miles of mains, approximate, 40.
 Price gas, 1903: Light and Fuel, gross \$1.20; net \$1.
 Annual output, approx., 100,000,000 c. f.
 Candle-power, 18 to 19.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 1,700.

"The fact that the number of lamps in Worcester has been increased and the contract recommended by a unanimous vote of the City Council, is perhaps a sufficient answer to the inquiry if the service is satisfactory to the citizens of Worcester."

See advertisement, page xx.

HENRY A. KNIGHT, Superintendent of Street Lights.

Napanee Water and Electric Light Co., Napanee.

Capital stock, \$45,000.
 Bonds, \$4,000; interest, 5 p. c.
 President, R. J. Cartwright.
 Sec'y and treas., Alf. Knight.
 Pur. agent and supt. Alf. Knight.
 Process manufacture, Good (oil and coal).
 Pop. dist. supplied, 4,000. No. meters, 300.
 Price gas, 1903: Light, gross \$2.50; net \$2.
 Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 5,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 35 p. c.
 Lowest pressure for gas stove, 2.5 in.
 Gas stoves in use, 100.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, 24 (2,000 c. p.) arcs capac.
 Incand. system, 2,500 lamps capac.
 Power generators, 100 kw. capac.
 Price arc, Public, per year, \$56.50.
 Price incand., Public, per year, \$2 to \$5.
 Price incand., Com'l, per mo., 25c. to 35c.
 Power used, Water and Steam.

Niagara Falls Gas Co., Limited, Niagara Falls.

Capital stock, \$50,000.
 President, Frank A. Dudley.
 Secretary, Alex. Frasier.
 Treasurer, William T. Morris.
 General manager, T. W. Summers.
 Superintendent, A. H. Merritt.
 Superintendent of works, C. A. Schwarm.
 Process manufacture, Coal.
 Population, 1903, 8,000.
 Miles of mains, approximate, 3.
 Price gas, 1903: Light and Fuel, gross \$1.75;
 net \$1.60, \$1.50, \$1.40.
 Annual output, 1,000,000 c. f.

Ottawa Gas Co., Ottawa.

Capital stock, \$450,000.
 Bonds, \$100,000; due, 1914; interest, 5 p. c.
 President, John Coates, C. E.
 Sec'y and treas., D. B. Gardner.
 Purchasing agent, D. B. Gardner.
 Superintendent, Thos. Dunderdale.
 Proc. manf., Coal and Merrifield-Westcott-Pearson.
 Pop. dist. supplied, 62,000. No. meters, 2,850.
 Miles of mains, approximate, 40.
 Price gas, 1903: Light, gross \$2; net \$1.50.
 Fuel, gross \$1.25; net \$1.10.
 Streets lighted by Welsbachs.
 Annual output, approx., 62,000,000 c. f.
 Candle-power, 19.5.
 Proportion sold for fuel purposes, 70 p. c.
 Lowest pressure for gas stoves, 2 in.

Owen Sound Gas Light and Fuel Plants, Owen Sound.

(Owned by corporation of the Town of Owen Sound.)
 Treasurer, A. J. Spencer.
 Superintendent, L. K. Elwin.
 Process manf., Peter English and Coal.
 Pop. dist. supplied, 4,000. No. meters, 515.
 Miles of mains, approximate, 3.

Price gas, 1903: Light, gross \$2; net \$1.60 to \$1.80. Fuel, net \$1.20.
 Annual output, approx., 8,000,000 c. f.
 Candle-power, 23.
 Proportion sold for fuel purposes, 15 p. c.
 Lowest pressure for gas stoves, 4 to 2 in.
 Gas stoves in use, 80.
 Supplies Owen Sound.

ELECTRICAL DEPARTMENT.

(Business conducted under name of Owen Sound Electric Dept.)
 Arc system, T. H., Brush, 140 (2,000 c. p.) arcs capacity.
 Incand. system, Stanley, 1,800 lamps capac.
 Power generators, 60 kw.
 No. public arcs, 37. Lighted dark till daylight, 293 nights.
 Price arc, Public, per year, \$72.
 Price arc, Com'l, per mo., to 10 P. M., \$4.
 Price incandescent, Commercial, per mo. (16 c. p.) till 10 P. M., 30c., 40c. and 50c.
 Per kw. gross, 20c., disc., 10, 33.5, 40 and 50 p.c.
 Power used, Water, Steam auxiliary.
 Cost boiler fuel per ton, \$3.05.

Peterborough Light and Power Co., Peterborough.

Capital stock, pref., \$50,000; com., \$150,000.
 Bonds, \$75,000; due, 1909; interest 5 p. c.
 President, T. E. Bradburn.
 Secretary, A. Stevenson.
 Purchasing agent, A. Stevenson.
 Process manf., Economical Gas Const. Co.
 Pop. dist. supplied 12,000. No. meters, 400.
 Miles of mains, approximate, 12.
 Price gas, 1903: Light, gross \$2; net \$1.75.
 Fuel, gross \$1.50; net, \$1.25.
 Annual output, approx., 10,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 90 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 300.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
 Arc system, T. H., 150 (2,000 c. p.) arcs capac.
 Incand. system, S.K.C., T.H., 6,000 lamps capac.
 Power generators, 1,210 kw. capac.
 No. public arcs, 110; lighted all dark hours.
 Price arc, Public, per year, \$50.
 Price arc, Commercial, per month, \$5.42.
 Price incand., Com'l, per mo., 16 c. p., 21c.
 Price per kw., gross 20c. to 15c.; net 5c. to 7.5c.
 Power used, Water.

Port Hope Gas Co., Port Hope.

Capital stock, \$35,000.
 President, John Mulligan.
 Secretary, R. Gray.
 Treasurer, R. Gray.
 Purchasing agent, R. Gray.
 Superintendent, R. Gray.
 Process manufacture, Coal.
 Pop. dist. supplied, 5,000. No. meters, 250.
 Miles of mains, approximate, 8.
 Price gas, 1903: Light, gross \$2.50; net \$2.
 Fuel, gross \$1.50; net \$1.25.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 18.

Have you seen **THE WELSBACH SYSTEM OF STREET LIGHTING** in operation? We invite examination and comparison. See advertisement, page xx.

Proportion sold for fuel purposes, 35 p. c.
Lowest pressure for gas stoves, 1.2 in.
Gas stoves in use, 102.

St. Catharines Gas Co., Ltd., St. Catharines.

Capital stock, \$100,000; annual div., 6 p. c.
President, Mrs. R. Merritt.
Sec'y and treas., Jas. R. Benson.
Supt. and pur. agt., Thos. A. Gardner.
Accountant, G. A. Waud.
Process manufacture, Coal.
Pop. dist. supplied, 10,000. No. meters, 1,200.
Miles of mains, approximate, 12.
Price gas, 1903: Light, gross \$1.60; net \$1.50.
Fuel, gross \$1.10; net \$1.
No. public lamps, 102. Price per year, \$20.
Consumption per burner per hour, 5 c. f.
Price includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 2,243.
Annual output, approx., 34,376,400 c. f.
Candle-power, 19.
Proportion sold for fuel purposes, 40 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 400.
Cities supplied: St. Catharines and Merriton.

St. Thomas Gas Co., St. Thomas.

Capital stock, \$100,000; semi-annual div. 6 p. c.
President, John Farley, K. C.
Secretary, M. A. Gilbert.
Treasurer, M. A. Gilbert.
Purchasing agent, Geo. L. Oill.
Manager, Geo. L. Oill.
Process manufacture, Coal and Lowe.
Pop. dist. supplied, 13,000. No. meters, 1,358.
Price gas, 1903: Light, gross \$2; net \$1.50.
Fuel, net \$1.15.
No. public lamps, 108. Price per year, \$20.
Consumption per burner per hour, 5 c. f.
Price includes repairs, care, lighting and extinguishing.
Lighted by moon scale.
Annual output, approx., 24,000,000 c. f.
Candle-power, 17.65.
Proportion sold for fuel purposes, 45 p. c.
Lowest pressure for gas stoves, 3 in.
Gas stoves in use, 600.
Supplies St. Thomas.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
Arc system, Brush, Reliance, 120 (2,000 c. p.) and 60 (1,200 c. p.) arcs capacity.
Incand. system, S. K. C., Royal, 30,000 lamps capacity.
Power generators, 135 kw. capacity.
No. public arcs, 80; lighted all and every night.
Price arc, Public, per night, 25c.
Price arc, Commercial, per night, 25c.
Price incand., Com'l, 16 c. p., per amp-h., 0.75c.
Power used, Steam.
Cost boiler fuel per ton, \$2.65.

Sarnia Gas and Electric Light Co., Sarnia.

Capital stock, \$250,000; annual div., 8 p. c.
Bonds, \$25,000; due 1906; interest 5.5 p. c.

President, Thomas Kenny.
Secretary, W. Williams.
Treasurer, W. Williams.
Purchasing agent, W. Williams.
Superintendent, W. Williams.
Process manufacture, Lowe.
Pop. dist. supplied, 10,000. No. meters, 1,000.
Miles of mains, approximate, 18.
Price gas, 1903: Light, gross \$1.65; net \$1.50.
Fuel, gross \$1.10; net 95c.
Annual output, approx., 20,000,000 c. f.
Candle-power, 21.
Proportion sold for fuel purposes, 50 p. c.
Lowest pressure for gas stoves, 2 in.
Gas stoves in use, 600.
Supplies Sarnia and Pt. Edward.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
Arc system, Ft Wayne, 82 (1,200 c. p.) arcs capacity.
Incand. system, S. K. C. and T. H., 5,000 lamps capac.
Power generators, 110 kw. capacity.
No. public arcs, 82; hours lighted, 2,250.
Price arc, Public, per year, \$65.
Price arc, Commercial, per month, \$5.
Price incandescent, Commercial, per kw., gross 15c.; net 5c. and 7c.
Power used, Steam.
Cost boiler coal per ton, \$2.75 (slack).

Simcoe Gas and Water Co., Ltd., Simcoe.

Capital stock, \$40,000; annual div., 10 p. c.
President, G. H. Luscombe.
Secretary, Walter C. McCall.
Treasurer, Walter C. McCall.
Purchasing agent, G. H. Luscombe.
Superintendent, John C. West.
Process manufacture, Springer.
Pop. dist. supplied, 3,500. No. meters, 230.
Miles of mains, approximate, 5.5.
Price gas, 1903: Light, gross \$2; net \$1.50.
Fuel, net \$1.
Annual output, approx., 5,300,000 c. f.
Candle-power, 24.
Proportion sold for fuel purposes, 15 p. c.
Lowest pressure for gas stoves, 2.5 in.
Gas stoves in use, 30.

ELECTRICAL DEPARTMENT.

(Business conducted under same name as gas company.)
Arc system, Reliance, 50 (2,000 c. p.) arcs capac.
No. public arcs, 29.
Price arc, Public, per year, \$62.40.
Number hours lighted per year, 2,000.
Price arc, Commercial, per month, \$5.20.
Power used, Water.

Stratford Gas Co., Stratford.

Capital stock, \$70,260.
Bonds, \$34,000; due, 1909; interest, 5 p. c.
President, S. A. King.
Secretary and treasurer, J. P. King.
Pur. agent and supt., Fred. Chowen.
Process manufacture, Coal.
Pop. dist. supplied, 12,000. No. meters, 435.
Miles of mains, approximate, 9.

Extract from report of Department of Public Works, New York City:

"I was very much surprised during a recent visit to Paris to discover that the **Welsbach** had superseded electricity on all the grand avenues, especially the Champs Elysees."

See advertisement, page xx.

CHAS. H. T. COLLIS, Commissioner.

Price gas, 1903: gross \$1.50; net \$1.20.
 Annual output, approx., 13,000,000 c. f.
 Candle-power, 17.5.
 Proportion sold for fuel purposes, 33 p. c.
 Lowest pressure for gas stoves, 2 in.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)

Arc system, Ball, Reliance, 130 (2,000 c. p.) arcs capacity.
 Incand. system, Ed., Nat'l, 2,000 lamps capac.
 No. public arcs, 89; hours lighted, 2,300.
 Price arc, Public, per year, \$65.
 Price arc, Commercial, per month, \$5.20.
 Price incand., Com'l, per year, 16 c. p., \$6.
 Price per kw., gross 15c.; dis., 20c, 30c. and 40c.
 Power used, Steam.
 Cost boiler fuel per ton, \$4.43.

Consumers Gas Co., Toronto.

Capital stock, \$1,900,000; annual div., 10 p. c.
 President, Larratt W. Smith, D. C. L., K. C.
 Secretary and treasurer, W. H. Pearson.
 Gen. mgr. and pur. agt., W. H. Pearson.
 Superintendent, W. H. Pearson, Jr.
 Process manufacture, Coal and Lowe.
 Pop. dist. supplied, 250,000.
 No. meters, 33,677.
 Miles of mains approximate, 277.
 Price gas, 1903: Light and Fuel, gross \$1; net 90c.
 No. public lamps, 944. Price per year, \$32.
 Consumption per burner per hour, 3 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Consumption per burner, 3 c. f.
 Annual output, approx., 1,126,527,000 c. f.
 Candle-power, 18.50.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 1.6 in.
 Gas stoves in use, 7,200 ranges; 8,700 table burners.
 Supplies city of Toronto and suburbs.

Waterloo Consumers Gas Co., Waterloo.

Capital stock, \$10,000.
 President, I. H. Webb.
 Vice-president, George Moore.

Windsor Gas Co., Windsor.

Capital stock, \$50,000.
 Bonds, \$23,000; due 1912; interest, 6 p. c.
 President, S. A. King.
 Vice-president, W. C. Kennedy.
 Managing Director, Isaac C. Baxter.
 Process manufacture, Coal.
 Pop. dist. supplied, 15,000. No. meters, 1,450.
 Miles of mains, approximate, 16.
 Price gas, 1903: Light, gross \$1.50; net \$1.40.
 Fuel, net \$1.
 No. public Welsbach lamps, 140.
 Consumption per burner per hour, 4 c. f.
 Contract includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.
 Annual output, approx., 35,000,000 c. f.
 Candle-power, 16.
 Proportion sold for fuel purposes, 55 p. c.
 Lowest pressure for gas stoves, 2.3 in.

Gas stoves in use, 600.
 Supplies Windsor and Walkerville.
 (Natural gas competition.)

Woodstock Gas Light Co., Woodstock.

Capital stock, \$75,000.
 President, H. H. Powell.
 Secretary, A. W. Moore.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,000. No. meters, 850.
 Price gas, 1903: Light, gross \$1.60; net \$1.50.
 Fuel, gross \$1.10; net \$1.
 Annual output, approximate, 24,500,000 c. f.
 Candle-power, 19.

PRINCE EDWARD'S ISLAND.

The Charlottetown Light and Power Co., Limited, Charlottetown.

Capital stock, auth., \$150,000; issued, \$55,000.
 Bonds, \$27,000; interest 5 and 6 p. c.
 President, Geo. T. Longworth.
 Secretary, A. E. Ings.
 Treasurer, A. E. Ings.
 Superintendent, B. Callaghan.
 Process manufacture, Coal.
 Price gas, 1903: Light and fuel, gross \$2.20; net, \$1.75.
 Pop. dist. supplied, 12,000. No. meters, 148.
 Miles of mains, approximate, 4.5.
 Annual output, approx., 7,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Supplies Charlottetown.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, T. H., 75 (1,200 c. p.) arcs capac.
 Incandescent system T. H. and Edison.
 No. public arcs, 75; price per year, \$69.
 No. public incand., 21. Price per year (32 c. p.) \$18.
 Price Com'l per kw. gross, 15c. disc. 15 p. c.
 Power used, Steam.
 Cost boiler coal per ton, \$4.

QUEBEC.

Montreal Gas Co., Montreal.

(Operated by Montreal Light Heat and Power Co.)

Capital stock, \$3,000,000; annual div., 8 p. c.
 Bonds outstanding, \$636,600; due 1908 and 1921; interest, 4, 4.5 and 5 p. c.
 President, H. S. Holt.
 Sec'y and treas., H. H. Henshaw.
 Purchasing agent, A. H. Edwards.
 Superintendent works, S. Skinner.
 Superintendent of mains, C. H. Osler.
 Process manufacture, Coal and Lowe.
 Pop. dist. suppl'd, 323,000. No. meters, 36,647.
 Miles of mains, approximate, 201.
 Price gas, 1903: Light, net \$1.20. Fuel, \$1.
 No. public lamps, 700.
 Consumption per burner per hour, 5 c. f.
 Contract includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 4,000.

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA furnishes a special Park Lamp, which is particularly suitable for the lighting of public parks and boulevards. See advertisement, page xx.

Annual output, approx., 887,376,000 c. f.
 Candle-power, 21.
 Proportion sold for fuel purposes, 40 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 16,692.
 Supplies Montreal, Westmount, St. Henri,
 Maisonneuve, Cote St. Paul, De Lorimer
 Verdun and Ste. Cunegonde.

ELECTRICAL DEPARTMENT.

(Operated under name of Montreal Light,
 Heat and Power Co.)
 Arc systems, W. E. Brush, Wood and T. H.,
 1,800 (2,000 c. p.); 1,400 (1,200 c. p.) arcs
 capacity.
 Incand. system, G. E., West's, S. K. C., and
 Wagner, 300,000 lamps capacity.
 Power generators, 33,000 kw. capacity.
 No. public arcs, 1,800; lighted 3,900 hours.
 Price incand. Com'l, per kw., gross 15c;
 disc., 5 and 10 p. c.
 Power used, Water.

Quebec Gas Co., Quebec.

Capital stock, \$300,000.
 President, A. F. Hunt.
 Secretary, D. H. Geggie.
 Treasurer, Thos. H. Norris.
 Mgr. and pur. agt., D. H. Geggie.
 Process manufacture, Coal.
 Population district supplied, 70,000.
 Price gas, 1903: Light, gross \$2; net \$1.50 to
 \$1.75. Fuel, gross \$2; net \$1.25.
 Annual output, approx., 50,000,000 c. f.
 Candle-power, 18.
 Proportion sold for fuel purposes, 60 p. c.
 Lowest pressure for gas stoves, 1.6 in.

La Cie De Gaz, Electricite et Pouvoir, St. Hyacinthe.

Capital stock, \$115,000; annual div., 5 p. c.
 Bonds, \$22,000; due 1903 to 1923; interest 5 p. c.
 President, Paul F. Payan.
 Secretary, J. C. Desantels.
 Treasurer, E. St. Onge.
 Pur. agt. and supt. Louis Brousseau.
 Process manufacture, Granger.
 Pop. dist. supplied, 8,917. No. meters, 262.
 Miles of mains, approximate, 5.
 Price gas, 1903: Light, gross, \$2; net \$2.40;
 Fuel, gross, \$1.50; net \$1.20.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 22.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.8 in.
 Gas stoves in use, 152.
 Supplies St. Hyacinthe.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, G. E., 75 arcs capacity.
 Incand. system, 6,000 lamps capac.
 Power generators, 360 kw. capac.
 No. pub. arcs, 36 (1,200 c. p.); lighted all night.
 No. Public incand., 52.
 Price arc, Public, per year, \$80.
 Price incand., public, per year (32 c. p.) \$25.
 Price incand., Commercial, per kw., gross,
 15c.; disc., 20 p. c.
 Power used, Water and Steam.
 Cost boiler fuel per ton, \$5.55.

Sherbrooke Power, Light and Heat Co., Sherbrooke.

Capital stock, \$200,000; annual div., 4 p. c.
 Bonds, \$20,000; due 1923; interest, 5 p. c.
 President, Hon. William White.
 Secretary, R. N. Robins.
 Treasurer, R. N. Robins.
 Supt. and pur. agent, A. Sangster.
 Asst. superintendent, Geo. Taylor.
 Process manufacture, Lowe and Granger.
 Pop. dist. supplied, 5,000. No. meters, 180.
 Miles of mains, approximate, 7.
 Price gas, 1903, gross and net: Light, \$2.50;
 Fuel, \$1.25.
 Annual output, approx., 4,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 75 p. c.
 Lowest pressure for gas stoves, 2 in.
 Gas stoves in use, 90.
 Supplies Sherbrooke and Lennoxville.

ELECTRICAL DEPARTMENT.

(Operated under same name as gas company.)
 Arc system, S. K. C., 150 (2,000 c. p.) arcs capac.
 Incand. system, Stanley, 15,000 lamps capac.
 No. public arcs, 99; lighted all and every
 night.
 No. public incand., 28.
 Price arc, Public, per year, \$60.
 Price incand., Public, per year, 32 c. p., \$15.
 Price arc and incand., Com'l, per kw-h., 10c.
 Per kw. gross, 10c.; disc. 5c.
 Power used, Water.

Gas Department, Corporation of Sorel, Sorel.

Capital stock, \$38,000.
 Pres. Lighting Committee, O. Lesieur.
 Sec'y and treas., John G. Crebassa, Jr.
 Pur. agt. and supt., D. Roberge.
 Process manufacture, Coal.
 Pop. dist. supplied, 9,400. No. meters, 280.
 Miles of mains, approximate, 6.
 Price gas, 1903: Light, gross \$2; net \$1.50;
 Fuel, gross \$1.25; net \$1.
 No. public lamps, 100. Price per year, \$20.
 Consumption per burner per hour, 4 c. f.
 Price includes repairs, care, lighting and
 extinguishing.
 No. hours lamp is lighted per year, 1,500.
 Annual output, approx., 7,000,000 c. f.
 Candle-power, 15.
 Proportion sold for fuel purposes, 6 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 68.

Three Rivers Gas, Heat and Power Co., Three Rivers

Capital stock, \$250,000.
 President, J. W. Poupore.
 Secretary and treas., John Hyde.
 Manager, Louis H. Bacque.
 Process manufacture, Riche.
 Pop. dist. supplied, 12,000. No. meters, 176.
 Miles of mains, approximate, 6.5.
 Price gas, 1903: Light and Fuel, net, \$1,
 Annual output, approx., 5,000,000.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 1.5 in.
 Gas stoves in use, 164.

"I would state that the **Welsbach** System of Street Lighting that was installed in this city in June, 1898, has proved entirely satisfactory to this Department."

(Signed) WILLIAM D. LANG, Superintendent of Lamps, Boston. Mass.

See advertisement, page xx.

NOTE.—Correspondence with these companies should be in Spanish. The following is but a partial list of South American gas companies.

ARGENTINE REPUBLIC.

Buenos Ayres (New) Gas Co. (Compania Nueva de Gas), Buenos Ayres.

Works office, Calle Alsina 1169; general office, 1 East India Ave., London, E.C., England.
Capital stock issued, £720,000.
Bonds, £220,000 (\$1,069,200).
President, F. J. Haseltine.
Secretary, J. M. Macmorran.
Manager, Mariano Obarrio.
Process manufacture, Coal and Water.
Pop. dist. supplied, 90,000.
No. public lamps, 7,000.
City supplied, Buenos Ayres.
(Works of South Barracas Gas Co. operated under lease.)

Compania Primitiva de Gas, Buenos Ayres.

Office, Calle Cuyo 943.

Compania Rio de la Plata, Buenos Ayres.

Office, Calle Corrientes 951.

River Plate Gas Co., Buenos Ayres.

General office, 10-11 Austin Friars, London, E. C., England.
Capital stock, \$1,163,720.
Secretary, Ernest Heald.
General manager, A. Gabarret.
Engineer, J. W. Rowbotham.
Cities supplied: Buenos Ayres, LaPlata, Tucuman.

La Plata Gas Co., La Plata.

Capital stock, \$1,030,000.
President, Belisario Hueyo.
Secretary, V. Fletcher.
Treasurer, Thomas Ambrosetti.
Process manufacture Coal.
Pop. dist. supplied, 1,500.
Miles of mains, approximate, 50.
Price gas, 1903: Light, gross 26c.; net, 25c.
No. public lamps, 50.
No. hours lamp is lighted per year, 4,000.
Annual output, approximate, 26,000,000 c. f.
Candle-power, 20.
Supplies La Plata.

BRAZIL.

Bahia Gas Co., Ltd. (Compagnie d'Eclairage de Bahia), Bahia.

(Works taken over by municipality.)

Ceara Gas Co., Ltd., Ceara.

General office, 9 Queen St. Place, London, E. C., England.
Works at Fortaleza, Brazil.
Capital stock, £57,894.
President, J. Darell Blount.
Secretary, G. R. Guyatt.
Manager, George Martin.

Process manufacture, Coal.
Supplies Fortaleza.

Companhia de Gaz Maranhao, Maranhao.

(No report.)

Para Gas Co., Ltd. (Companhia de Gaz Paraense), Para.

General office, 8 Hill Street, Edinburgh, Scotland.
Capital stock, £80,000 (\$388,800).
President, J. Hepworth.
Secretary, J. A. Pettullo.
Manager, J. R. Hislop.
Process manufacture, Coal.
Supplies Para.

Pernambuco, Gas Co., Ltd., Pernambuco.

General office, 5 Norfolk Street, Manchester, England.
Secretary, J. Cocks.
Managers, G. R. Jones, E. C. Leigh.

Societe Anonyme du Gaz, Rio de Janeiro.

Office, Rue Alfondego No. 102.

San Paulo Gas Co., Ltd., San Paulo.

General office, 1 Broad St. House, New Broad St., London, E. C., England.
Capital stock, £250,000 (\$1,215,000).
Annual dividend, 7 p. c.
Bonds, £70,000; due 1927; interest, 5 p. c.
President, D. M. Fox.
Secretary, G. H. Rogers.
Manager, Richard Gray.
Process manufacture, Coal.
Pop. dist. sup., 250,000. No. meters, 5,987.
Miles of mains, approximate, 120.
Price gas: Light, net \$1.80. Fuel, net \$1.35.
No. public lamps, 4,092, all Welsbachs.
No. hours lamp is lighted per year, 4,000.
Annual output, approx., 180,000,000 c. f.
Candle-power, 14.
Proportion sold for fuel purposes, 12.5 p. c.
Lowest pressure for gas stoves, 1.25 in.
City supplied, San Paulo.

City of Santos Improvement Co., Ltd., Santos.

General office, 174 Gresham House, London, E. C., England.
Capital stock, £235,000 (\$1,142,100); 6 and 7 p. c. (pref., £200,000; com., £35,000).
Manager, H. Stenhouse.
Engineer, W. H. Keel.
Process manufacture, Coal.
Pop. dist. sup., 40,000. No. meters, 1,500.
Price gas: Light, gross 450 reis (\$7 per 1,000 c. f.)
No. public lamps, 1,396.
Candle-power, 18.

BRITISH GUIANA.

Georgetown Gas Co., Ltd., Georgetown.

General office, 30 Gracechurch St., London, E. C., England.
(Works sold and business discontinued.)

Welsbach Street Lighting Co. of America

CHILI.

Chillan Gas Co., Chillan.

(No report.)

Compania de Gas de Concepcion Concepcion.

(Headquarters at Valparaiso.)

Capital stock, \$300,000; annual div., 12 p. c.

President, Enrique Page, Valparaiso.

Secretary, Gorje A. Halle, Valparaiso.

Treasurer, R. Tillmanns, Valparaiso.

Manager at Concepcion, Macsimo Kroneberg.

Pop. dist. supplied, 40,000.

Miles of mains, approximate, 12.

Price gas, 1903: Light gross, \$20; net, \$15.

No. public Welsbach lamps, 285; Price per year, per lamp, \$6.

Price includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 3,500.

Annual output, approximate, 900,000 c. f.

Candle-power, 17.

Proportion sold for fuel purposes, 2 p. c.

Gas stoves in use, 50; ranges 10; motors, 5.

Supplies Concepcion.

PORTO RICO.

St. John Gas Co., Porto Rico.

(Gen'l offices, 22 Great Winchester St., E. C., England.

Capital stock, \$36,000.

Secretary, D. S. Derry.

Engineer, L. A. Scott.

Process manufacture, Coal.

Pop. dist. supplied, 25,000.

URUGUAY.

Montevideo Gas Co., Montevideo.

General office, 321 Dashwood House, New Broad Street, London, E. C., England.

Capital, £541,920 (\$2,633,731); 5 p. c. perp.

First mort. debenture stock, £30,240.

Annual dividend, 3.5 p. c.

Bonds, £10,440; interest, 5 p. c.

President, T. C. Tatham.

Secretary, Henry Kearns.

General manager, Thomas F. Lane.

Engineer, James McCubbin.

Process manufacture, Coal.

Population dist. supplied, 275,000.

Copiapo Gas Co., Ltd., Copiapo.

General office, Dashwood House, New Broad St., London, E. C., England.

Capital stock, £25,000 (\$121,500).

Secretary, R. S. Archibald.

Superintendent, J. Jones.

Process manufacture, Coal.

VENEZUELA.

Compania Anonima, del Gas y de la Lux Electrica, Caracas.

Capital stock, 2,300,000 bolivars (\$442,300).

President, M. Porras E.

Vice-pres., Dr. A. Couturier.

Secretary, H. Mitayne.

Manager, I. M. Fernandez Feo.

Process manufacture, Coal and Water-gas.

Pop. dist. supplied, 90,000. No. meters, 1,200.

Miles of mains, approximate, 27.

Price gas: Light, net \$4.

Cost of coal, per ton, \$16.

No. public lamps, 1,630.

Consumption per burner per hour, 4 c. f.

Annual output, approx., 30,000,000 c. f.

Candle-power, 18.

Proportion sold for fuel purposes, 45 p. c.

Lowest pressure for gas stoves, 0.8 in.

Supplies Caracas.

La Compania de Alumbrado, Iquique.

La Serena Gas Co., La Serena.

Santiago Gas Co., Santiago.

Talca Gas Co., Talca.

(No reports.)

Talcahuano Gas Co., Talcahuano.

(In course of construction.)

Compania de Gas de Valparaiso, Valparaiso.

(Supplies both gas and electricity.)

PERU.

Compania del Gas, Callao.

Empresa del Gas, Chorillas.

Empresa del Gas, Lima.

(No reports.)

ELECTRICAL DEPARTMENT.

(Operated under name of gas company.)

Arc system, T. H., 100 (2,000 c. p.) arcs capac.

Incand. sys., T. H., 5,000 lamps capac.

No. public arcs, 87. Price per year, \$173.

Price arc, Commercial, per month, \$16.

Price incand., Com'l, per month, 16 c. p.,

\$1.75; 50 c. p. \$5.25.

Power used, Steam.

Cost boiler coal per ton, \$16.50.

WEST INDIES—CUBA.

Havana Gas Co., Havana.

(No report.)

THE **Welsbach** STREET LIGHT possesses absolute immunity from flickering or smoke in the lanterns; also from bugs and other outside obstructions to illumination. See advertisement, page xx.

NATURAL GAS COMPANIES. STATISTICS.

ARKANSAS.

Mansfield Gas Co., Fort Smith.
Capital stock, \$18,000.
President, Harry E. Kelley.
Manager, Harvey Saunders.

Miles pipe line, 9.
No. domestic consumers, 42.
Price gas, Light, 75c.; Fuel, 50c.
No. public lamps, 55. Price per year, \$30.
Cities supplied: Mansfield and Huntington.

CALIFORNIA.

Stockton Gas and Electric Co., Stockton.
(Capital and bonds also cover artificial gas
and electric plants.)
Capital stock, \$1,000,000; issued \$600,000.
Bonds, \$3,000; due 1905; int. 6 p. c.
President, F. A. Hihn.
Purchasing agent, H. E. Adams.

Price gas, gross, \$1; net 75c.
No. meters in service, 700.

Ventura Water, Light and Power Co., Ventura.
(New company. Pipe now being laid.)
President, E. P. Foster.

INDIANA.

Hazelwood Gas Co., Anderson.
Capital stock, \$50,000.
President, C. W. Hooven.
Purchasing agent, J. H. Millsbaugh.
Manager, J. C. Vance.
Wells drawn from, 32. Miles pipe line, 30.
No. domestic consumers, 1,500.
Price gas, gross, domestic, 15c.; industrial,
0.125c.
Value of gas supplied, 1903, approx., \$92,000.
Supplies part of Anderson.

Manufacturers' Fuel Supply Co., Anderson.
(Supplies few factories in Anderson.)

Buffalo Corner Natural Gas Co., Arcadia.
(No report.)

National Oil Co., Arcana.
(No report.)

Arlington Natural Gas Co., Arlington.
Capital stock, \$10,000.
Manager and pur. agent, J. J. Conaway.
No wells drawn from, 4.
Miles of pipe line, 5.
Price gas: gross, domestic, \$1.50 per stove.
Value of gas supplied, 1903, \$1,200.
Supplies part of Arlington.

Farmers' Natural Gas and Oil Co., Arlington.
Capital stock, \$4,700.
President, John F. Downey.
Managers and Pur. agts., J. F. Price and J. E.
Munden.
Wells drawn from, 5.
Miles pipe line, 14.
Number domestic consumers, 47.
Gas wells giving out.
(Co-operative company.)

R. S. C. Phillips Gas Co., Arlington.
Secretary, Chas. M. Phillips.
(Rural line.)

Atlanta Gas Oil and Mining Co., Atlanta.

Capital stock, \$2,000.
President and pur. agent, J. M. Whitler.
Secretary, E. S. Walton.
Board of directors acts as manager.
Wells drawn from, 9. Miles pipe line, 6.
No. domestic consumers, 258.
Price gas, gross, domestic, \$30 per year.
Value of gas supplied, 1903, approx., \$7,500.
Cities supplied, Atlanta and vicinity.

Oakland Farmers Mining Co., Atlanta.
Capital stock, \$1,750.
President, V. B. Hobbs.
Secretary, F. M. Henderson.
Wells drawn from, 3. Miles pipe line, 12.5.

THE **Welsbach** SYSTEM OF STREET LIGHTING is employed in the following cities: New York City, Philadelphia, Pa., Freehold, N. J., East Orange, N. J., New Haven, Conn., Brookline, Mass., Cambridge, Mass., New Rochelle, N. Y., Omaha, Neb., Springfield, O., Boston, Mass., New Bedford, Mass., Bridgeport, Conn., Dayton, O., Pensacola, Fla., St. Louis, Mo., Providence, R. I., San Francisco, Cal., Yonkers, N. Y., Milwaukee, Wis., Portland, Me., and various other cities. See advertisement, page xx.

No. domestic consumers, 38.
Value of gas supplied, 1903, approx., \$1,000.
(Do not sell gas; supply members only.)

Buena Vista Oil Co., Atlanta.

President, John G. Dunn.
Supplies part of Arcadia and glass factory.

Cadiz Natural Gas Co., Cadiz.

(No report.)

Central Natural Gas Co., Cadiz.

(No report.)

Cambridge City Natural Gas Co., Cambridge City.

Cities supplied: Cambridge City, Milton;
Dublin and Straughn.

Carmel Natural Gas and Improvement Co., Carmel.

Office, Indianapolis.
Capital stock, \$10,000.
Superintendent, E. G. Binford.
Wells drawn from, 3. Miles pipe line, 10.
No. domestic consumers, 150.
Value gas supplied, 1903, approx., \$3,000.

Clay Township Gas Co., Carmel.

(No report.)

Big Four Natural Gas Co., Carthage.

Capital stock, \$2,000.
President, O. W. Righter.
Purchasing agent, O. W. Righter.
Wells drawn from, 2. Miles pipe line 1.
(Gas used for owner's private use.)

Carthage Natural Gas Co., Carthage.

Capital stock, \$9,100.
President, Allen W. Newsom.
Manager, H. E. Stager.
Wells drawn from, 20. Miles pipe line, 15.
No. domestic consumers, 225.
Value of gas supplied, 1903, \$6,365.
City supplied, Carthage.

Farmers Natural Gas Co., Carthage.

President, Ira Earnest.
Manager, Charles Seisure.
Wells drawn from, 4. Miles pipe line, 5.
No. domestic consumers, 26 (Co-operative).

Riverside Natural Gas Co., Carthage.

Capital stock, \$3,500.
Manager, D. M. Kyser.
Wells drawn from, 4. Miles pipe line, 12.
No. domestic consumers, 35.
Value of gas supplied, 1902, approx., \$1,200.

Walnut Ridge Natural Gas Co., Carthage.

Capital stock, \$4,000.
Pur. agent and sec'y, F. W. Pusey.
Treasurer, O. M. Brown.
Manager, Board of Directors.
Wells drawn from, 7. Miles pipe line, 3.5.
No. domestic consumers, 22.
Price gas, gross, domestic, \$1 per mo.
Value gas supplied, 1903, \$800.

Charlottesville Natural Gas Co., Charlottesville.

Capital stock, \$7,000.
President, Robert S. N. Oldham.
Manager, J. H. Landis.
Purchasing agent, J. H. Landis.
No. wells drawn from, 4.
Miles of pipe line, about, 2.5.
Price of gas, gross; domestic, 15c. per 1,000.
Value of gas supplied, 1903: \$2,200.
No. domestic consumers, average 115.
Cities supplied: Charlottesville; few outside parties.

Cicero Heat, Light and Power Co., Cicero.

(Out of business.)

Home Gas and Water Co., Cicero.

Capital stock, \$15,000.
President, Wm. Winkel.
Manager, W. H. Roney.
Wells drawn from, 7. Miles pipe line, 15.
No. domestic consumers, 150.
Value of gas supplied, 1901, \$6,000.
City supplied, Cicero.

Cleveland Natural Gas and Oil Co., Cleveland.

Capital stock, \$2,000.
President, Isaiah Munden.
Manager, Board of Directors.
Wells drawn from, 3. Miles pipe line, 5.
Value of gas supplied, 1903, approx., \$300.
(Gas used by the stockholders.)

Cold Spring Gas Co., Cold Spring.

(No report.)

Commack Gas Oil and Mining Co., Commack.

President, S. H. Dragoo.
Manager, S. H. Dragoo.
Purchasing agent, W. F. McKinley.
Wells drawn from 2. Miles pipe line, 3.
Value of gas supplied, 1903, approx., \$600.
Supplies Commack.

Connersville Natural Gas Co., Connersville.

Capital stock, \$200,000.
President, J. B. McFarlan, Sr.
Manager, W. W. McFarlan.
No. wells drawn from, 30.
Price of gas, gross, domestic, 25c. per 1,000 c. f.
Value gas supplied 1903, \$36,000.
No. domestic consumers, 1,200.
Cities supplied, Connersville.

Citizens Gas Co., Cowan.

Manager, John W. Jefferson.
Supplies only members of company.

Cowan Exploring Co., Cowan.

Capital stock, \$1,630.
President, Chas. F. Harrold.
Manager, Frank Puddy.
Purchasing agent, Otto B. Pence.
Wells drawn from, 4. Miles pipe line, 2.5.
No. of domestic consumers, 35.
Price gas, domestic, per store, 75c.
Value of gas supplied, 1903, approx., \$700.
Supplies Cowan.

The **Welsbach STREET LIGHT** is now extensively used on many of the principal streets of New York City. See advertisement, page xx.

Co-operative Natural Gas Co. of Daleville, Daleville.

Capital stock, \$8,000.
 President, Aaron Rinkes.
 Wells drawn from, 6. Miles pipe line, 10.
 Value of gas supplied, 1903, approx., \$3,510.
 No. domestic consumers, 117.
 City supplied, Daleville.

Daleville Brick Co., Daleville.

Capital stock, \$10,000.
 President, J. J. Johnson.
 Manager, C. E. Negley.
 Miles of pipe line, 0.5 mile.
 No. domestic consumers, 8.
 Value of gas supplied, 1903, \$1,000.
 Supplies part of Daleville.

Daleville Glass Co., Daleville.

President, W. H. McIntyre.
 Manager, J. P. Kandel.
 Purchasing agent, J. P. Kandel.
 Wells drawn from, 6. Miles pipe line, 4.
 Used only in glass factory.

G. O. Suman, Daleville.

(No report.)

Manufacturers Co-operative Gas Co., Daleville.

Capital \$1,500.
 President, J. M. Flenwick.
 Purchasing agent, F. W. Jenkins.
 Wells drawn from, 1. Miles pipe line, 1.
 Number domestic consumers, 24.
 Value of gas supplied, 1903, approx., \$450.

Dunkirk Light and Fuel Co., Dunkirk.

(No report.)

Dunkirk Manufacturers Natural Gas Co., Dunkirk.

Capital stock, \$25,000.
 President, Thomas F. Hart.
 Treasurer, Geo. A. Schlossstein.
 Manager, Matt Hart.
 Purchasing agent, Matt Hart.
 Wells drawn from, 22. Miles pipe line, 11.
 Number domestic consumers, 9.
 Price gas, gross, industrial, 10c. to stockholders.
 Value of gas supplied, 1903, approx., \$27,000.

Dunkirk Natural Gas and Oil Co., Dunkirk.

(Plant operated by the city at a cost to the city of about \$75,000, which is paid for out of the monthly rentals.)

City Clerk, J. O. Sullivan.
 No. consumers, 700.
 Supplies Dunkirk.

Linbark Natural Gas and Oil Co., Dunkirk.

Capital stock, \$6,750.
 President, D. C. Grant.
 Secretary and treasurer, C. R. Whetsel.
 Wells drawn from, 2. Miles pipe line, 8.
 Price of gas, gross, domestic, \$20 per year.
 No. domestic consumers, 22.
 Price gas, gross, domestic, \$20 per year.
 Value of gas supplied, 1903, approx., \$141.26.

Citizens Heat and Light Co., Elwood.

Capital stock, \$200,000.
 Bonds auth., \$350,000; issued, \$225,000; due 1923; interest, 5 p. c.
 President, J. S. Watson.
 Treasurer, E. B. Lewis.
 Manager, E. C. Critchlow.
 Purchasing agent, E. C. Critchlow.
 Wells drawn from, 35. Miles pipe line, 90.
 No. domestic consumers, 2,303.
 Price of gas, gross, per 1,000 c. f., domestic, 30c.; net 25c.
 Supplies, Elwood.

Barren Creek Gas Co., East Branch, Fairmount.

Capital stock, \$7,500.
 President, John B. Compton.
 Sec'y and mgr., J. H. Caskey.
 Wells drawn from, 2. Miles pipe line, 15.
 No. domestic consumers, 60.
 Price gas, gross, domestic, \$15 per year.

Fairmount Mining Co., Fairmount.

(No report.)

Triumph Gas Co., Fairmount.

Capital stock, \$6,750.
 President, George Felton.
 Wells drawn from, 1. Miles pipe line, 12.
 No. domestic consumers, 8.
 Price gas, gross, domestic, \$25 per year.
 Value gas supplied (1903), \$200.

Falmouth Natural Gas Co., Falmouth.

Capital stock, \$3,500.
 President, David Kirkpatrick.
 Purchasing agent, Jacob Gross.
 Wells drawn from, 4. Miles pipe line, 12.
 Number domestic consumers 95.
 Price gas, gross, domestic, 20c.
 Value of gas supplied, 1903, approx., \$2,300.
 Supplies Falmouth and Fairview.

Fall Creek Township Nat. Gas Co., Fisher's Switch.

(No report.)

Fortville Natural Gas Co., Fortville.

Capital stock, \$10,000.
 President, Geo. W. Morehead.
 Manager, Geo. W. Morehead.
 Purchasing agent, Geo. W. Morehead.
 Wells drawn from, 8. Miles pipe line, 8.
 No. domestic consumers, 200.
 Price gas, gross per 1,000 cubic feet, domestic, 10c.; industrial, 10c.
 Value of gas supplied, 1903, approx., \$7,200.
 City supplied, Fortville.

Fort Wayne Gas Co., Fort Wayne.

Capital stock, \$2,000,000.
 Bonds, \$1,940,000; interest, 6 p. c.
 President, Chas. F. Dieterich.
 Secretary, F. E. W. Scheiman.
 Treasurer, A. B. Proal.
 Manager, Henry C. Paul.
 Superintendent, C. M. Hofmann.
 Wells drawn from, 204. Miles pipe line, 400.
 No. domestic consumers, 11,700.
 Price gas, gross, per 1,000 c. f., domestic, 25c.

The "Candle Power" given by the IMPROVED **Welsbach** STREET LIGHT is more efficient for street illuminations than that obtained by any other means. See advertisement, page xx.

Value of gas supplied, 1903, approx., \$500,000.
Cities supplied: Fort Wayne, Montpelier,
Bluffton, Anderson, Ossian, Keystone.

Fountaintown Natural Gas Co., Fountaintown.

Capital stock, \$20,000.
President, S. R. Burnett.
Manager, Roger F. Rigdon.
Wells drawn from, 4. Miles pipe line, 6.
Price gas, domestic, per stove, \$2.
Value of gas supplied, 1903, approx., \$1,000.
Supplies Fountaintown.

Indiana Natural and Illuminating Gas Co., Frankfort.
(General office, La Fayette.)

Manager of Frankfort Division, T. B. Frazee.
Price gas, gross, domestic, per 1,000 c. f., 25c.;
industrial, 10c.
Cities supplied: Frankfort, Lebanon, Craw-
fordsville.

Frankton Natural Gas and Oil Co., Frankton.

Capital stock, \$10,000.
President, A. G. Urmston.
Vice-president, J. E. Urmston.
Pur. agent and manager, LeRoy Urmston.
Wells drawn from, 2. Miles of pipe line, 10.
Price of gas, per 1,000 c. f., gross, domestic,
25; industrial, 20c.
Value of gas supplied, 1903, \$8,000.
No. of domestic consumers, 150.
Supplies Frankton.

Urmston Gas Co., Frankton.

Capital stock, \$15,000.
President, A. G. Urmston.
Vice-president, J. E. Urmston.
Manager, Le Roy Urmston.
Purchasing agent, Le Roy Urmston.
Wells drawn from, 2. Miles pipe line, 12.
No. domestic consumers, 200.
Price gas, gross, per 1,000 c. f.: domestic, 25c.;
industrial, 20c.
Value of gas supplied, 1903, approx., \$12,000.
City supplied, Frankton.

Freeport Natural Gas Co., Freeport.

(No report.)

Manufacturers Gas and Oil Co., Gas City.

Capital stock, \$50,000.
President, W. L. Lindhardt.
Manager and pur. agent, John L. Thompson.
Wells drawn from, 25. Miles pipe line, 15.
No. domestic consumers, 600.
Price gas, gross, per 1,000 c. f.: domestic, 6c.;
industrial, 3c.
Value of gas supplied, 1903, approx., \$32,000.
Supplies half of Gas City and half of Upland.

People's Gas Co., Gas City.

Capital stock, \$25,000.
President and pur. agent, J. L. Thompson.
Wells drawn from, 21. Miles pipe line, 5.
Price gas, gross, domestic, \$2.10 per month for
stoves.
Value of gas supplied, 1903, approx., \$15,000.
No. domestic consumers, 500.
City supplied, Gas City.

Citizens Natural Gas, Oil and Water Co., Greenfield.

Capital stock, \$35,000.
President, Wm. C. Dudding.
Secretary and pur. agent, John L. Fry.
Manager, C. F. Mathes.
Wells drawn from, 12. Miles pipe line, 24.
No. domestic consumers, 950.
Price gas, gross, domestic, \$2.50 per month.
Value of gas supplied, 1903, approx., \$20,000.
City supplied, Greenfield.

Greenfield Gas Co., Greenfield.

(No report.)

Manufacturers Gas Co., Greenfield.

Capital stock, \$12,000.
President, J. R. Boyd.
Manager, Geo. W. Morehead.
Purchasing agent, Geo. W. Morehead.
Wells drawn from, 13. Miles pipe line, 14.
No. domestic consumers, 8.
Price gas, gross, per 1,000 c. f., 20c.
Value of gas supplied, 1903, approx., \$10,000.
City supplied, part of Greenfield.

Pigeon Roost Natural Gas Co., Greenfield.

(Office, Charlottesville, Ind.)
Capital stock, \$1,300.
President, Joseph N. Addison.
Wells drawn from, 6. Miles pipe line, 36.
No. domestic consumers, 100.
Value gas supplied, 1903, \$1,500.

Western Grove Natural Gas Co., Greenfield.

Capital stock, \$3,360.
President, J. L. Binford.
Managers and pur. agents, five directors.
Wells drawn from, 4. Miles pipe line, 11.
No. domestic consumers, 40.
Price gas, gross, domestic, \$1.25 per month
for cook-stove, \$1.50 for heater; indus-
trial, 10c. per jet, per month.
Value of gas supplied, 1903, approx., \$8c0.

Columbia Gas and Oil Co., Greenfield.

Capital stock, \$1,600.
President, Thomas A. Seaman.
Wells drawn from, 2. Miles pipe line, 6.
No. domestic consumers, 12.
(Supplies only owners of plant—12.)

Fourth Ward Gas Co., Greensburg.

President, Alonzo Roder.
Wells drawn from, 3. Miles pipe line, 1.
No. domestic consumers, 7.
Price gas, gross, domestic, per 1,000 c. f., 15c.
Value of gas supplied, 1903, \$450.
Supplies only owners—7.

Greensburg Gas and Electric Co., Greensburg.

Capital stock, \$65,000.
President, S. A. Bonner.
Manager, J. L. Bracken.
Secretary and purchasing agent, M. Grover.
Wells drawn from, 24. Miles pipe line, 30.
No. domestic consumers, 600.
Price gas, gross, per 1,000 c. f.: domestic, 15c.
Value of gas supplied, 1903, approx., \$10,000.
Supplies Greensburg.

Extract from report of the Chief engineer of Fairmount Park, Philadelphia, in regard to Welsbach Park Lights: "The **Welsbach** Lights with which you are now lighting the great pleasure ground of the city of Philadelphia are giving great satisfaction, adding greatly to the attractiveness of the Park."

See advertisement, page xx.

Greensburg Natural Gas, Oil & Water Co., Greensburg.

Capital stock, \$25,000.
 President, Charles Zoller, Sr.
 Secretary, Charles R. Porter.
 Purchasing agents, Messrs. Zoller and Porter.
 Wells drawn from 22. Miles pipe line, 13.
 No. domestic consumers, 200.
 Price gas, gross, per 1,000 c. f.: domestic, 15c.
 Value of gas supplied, 1903, approx., \$5,000.
 City supplied, part of Greensburg.

Hamilton Natural Gas Co., Greensburg.

(No report.)

Loller Natural Gas Co., Greensburg.

Secretary, Chas. R. Porter.
 Supplies a small part of Greensburg.

Montgomery & Dashiell, Greensburg.

Manager, R. W. Montgomery.
 Wells drawn from, 8. Miles pipe line, 3.5 to 4.
 No. domestic consumers, 40.
 Price gas, gross, per 1,000 c. f.: domestic, 15c.
 Value of gas supplied, 1903, approx., \$1,200.
 City supplied, part of Greensburg.

Muddy Fork Natural Gas Co., Greensburg.

(No report.)

Reed & Burns, Greensburg.

Wells drawn from, 5. Miles pipe line, 2.
 No. domestic consumers, 40.
 Price gas, gross, domestic, 1,000 c. f., 15c.
 Value of gas supplied, 1903, approx., \$800.

Styres Natural Gas Co., Greensburg.

Owner, Joe Styres.
 Wells drawn from, 13. Miles pipe line, 7.
 Price gas, gross, domestic, per 1,000 c. f., 15c.
 Value gas supplied, 1903, \$4,800.
 No. domestic consumers, 180.
 Supplies Greensburg.

Greentown Natural Gas Co., Greentown.

(No report.)

Blue River Natural Gas Co., Gwynneville, Ind.

Capital stock, \$2,200.
 President, A. R. Kayton.
 Mgr. and supt. of lines, David Morris.
 Wells drawn from, 2. Pipeline, 237.60 feet.
 No. domestic consumers, 44.
 Value of gas supplied, 1903, approx., \$1,000.

Gwynneville Natural Gas Co., Gwynneville.

Capital stock, 15,000.
 President, Edward Evans.
 Pur. agt and mgr, Edward Evans.
 Wells drawn from, 3. Miles of pipe line, 4.
 Price gas, gross, domestic, \$24.40 per year,
 two lights and two fires.
 Price gas, gross, industrial, \$24.40 for one 16-
 horse-power gas engine.
 Value gas supplied, 1903, \$1,100.
 No. domestic consumers, 65.
 Supplies part of Gwynneville.

W. W. Wilcoxon, Gwynneville.

Manager, W. W. Wilcoxon.
 Wells drawn from, 1. Miles pipe line, 1.
 No. domestic consumers, 9.
 Price gas, gross, domestic, per mo. heater \$1;
 stove, \$1.25; light, per 1,000 c. f. 10c.
 Value of gas supplied, 1903, approx., \$225.
 Supplies part of Gwynneville.

Citizens Natural Gas Co., Hagerstown.

Capital stock, \$2,000.
 President, Wm. Stonebraker.
 Manager, T. N. Williams.
 Wells drawn from, 2. Miles pipe line, 0.75.
 No. domestic consumers, 5.
 Price gas, gross, domestic, \$1.50 per month.
 Value of gas supplied, 1903, approx., \$75.
 Gas stoves in use, 5.
 Supplies Hagerstown.

Hagerstown Natural Gas Co., Hagerstown.

Capital stock, \$20,000.
 President, B. F. Jewett.
 Manager, B. F. Jewett.
 Purchasing agent, B. F. Jewett.
 Wells drawn from, 7. Miles pipe line, 2.
 No. domestic consumers, 100.
 Price gas, gross, per 1,000 c. f., domestic, 15c.
 Value of gas supplied, 1903, approx., \$3,000.
 Supplies Hagerstown.

American Glass and Oil Co., Hartford City.

(No report.)

Bailey Gas and Oil Co., Hartford City.

(Suspended business.)

Crescent Gas and Oil Co., Hartford City.

Capital stock, \$25,000.
 President, J. R. Johnston.
 Secretary, G. T. Fulton.
 Treasurer, J. P. A. Leonard.
 Wells drawn from, 28. Miles pipe line, 17.
 No. domestic consumers, 700.
 Value of gas supplied, 1903, approx., \$10,000.
 Supplies part of Hartford City.

Hartford City Natural Gas and Oil Co., Hartford City.

President, C. H. Hubbard.
 Manager and secretary, John Lenox.
 Purchasing agent, John Lenox.
 City supplied, Hartford City.

Peoples Gas Co., Hartford City.

(Co-operative company.)
 Capital stock, \$25,000.
 President, Geo. P. Ayers.
 Secretary and treasurer, J. A. Bonham.
 Purchasing agent, A. W. Miles.
 Wells drawn from, 8. Miles pipe line, 25.
 No. domestic consumers, 4.
 Price gas, gross, domestic, per month, a flat
 rate, or 10c. per 1,000 c. f.
 Value of gas supplied, 1903, approx., \$10,000.
 Supplies Hartford City.

Homer Natural Gas Co., Homer.

Secretary, E. A. Jarrett.
 Supplies Homer.

THE INCREASED CANDLE POWER of the Improved **Welsbach** Street Light is all utilized because it is distributed horizontally and below the horizontal plane in every direction. See advertisement, page xx.

Honey Creek Natural Gas Co., Honey Creek.

Capital stock, \$3,000.
 President, Henry Fadely.
 Manager, Theo. Z. Carter.
 Wells drawn from, 2. Miles pipe line, 3.
 No. domestic consumers, 75.
 Price gas, gross, per month, domestic, \$2.25.

Hortonville Gas and Exploring Co., Hortonville.

Capital stock, \$3,000.
 President, N. R. Briles.
 Manager, H. P. Rogers.
 Wells drawn from, 3. Miles pipe line, 15.
 No. domestic consumers, 100.
 Price gas, per year, domestic, \$20.
 Value of gas supplied, 1903, approx., \$2,000.
 City supplied, Hortonville.

Moore and Blanton, Hortonville.

Capital stock, \$3,000.
 President, John Arbaugh.
 Secretary and manager, J. H. Moore.
 Purchasing agent, J. H. Moore.
 Wells drawn from, 1. Miles pipe line, 11.
 No. domestic consumers, 40.
 Value of gas supplied, 1903, approx., \$600.

Walker & Hinshaw Natural Gas Co., Hortonville.

Manager, C. M. Walker.
 Wells drawn from, 1. Miles pipe line, 1.
 No. domestic consumers, 8.
 Price gas, gross, domestic, \$1.25 per mo.
 Value of gas supplied, 1903, approx., \$200.

Huntington Light and Fuel Co., Huntington.

(No report.)

Consumers Gas Trust Co., Indianapolis.

President, A. A. Barnes.
 Manager, Bement Lyman.
 Wells drawn from, 220. Miles pipe line, 375
 Gas sold by contract at rates made by city.
 No. domestic consumers, 7,000.
 Value gas supplied, 1903, approx., \$242,000.
 City supplied, Indianapolis.

Indianapolis Gas Co., Indianapolis.

(Natural gas department discontinued.)

Manufacturers Natural Gas Co., Indianapolis.

Treasurer, H. McN. Landon.
 Supplies, Alexandria Elwood, Frankton and
 Noblesville.

Wagner Glass Co., Ingalls.

Capital stock, \$3,500.
 Bonds, \$2,500; interest, 6 p. c.
 President, Henry Wagner.
 Manager, John F. Wagner.
 Purchasing agent, Henry Wagner.
 Wells drawn from, 9. Miles pipe line, 8.
 No. domestic consumers, 75.
 Price gas, gross, domestic, per stove, \$2.25.
 Value of gas supplied, 1903, approx., \$2,500.
 Supplies Ingalls.

Jadden Gas Co., Jadden.

Capital stock, \$2,200.
 Bonds, \$2,200.

President, Isaiah Wall.

Wells drawn from, 1. Miles pipe line, 4.
 Price gas, gross, per year, domestic (two
 stoves), \$15.
 Value gas supplied, 1903, \$260.
 No. domestic consumers, 13.
 City supplied, Jadden.

Citizens Natural Gas and Oil Co., Jolietville.

(No report.)

Jonesboro Mining Co., Jonesboro.

(No report.)

Supplies Jonesboro.

Kennard City Natural Gas Co., Kennard.

Capital stock, \$2,750.
 Bonds, \$2,000; due 1904; interest 6 p. c.
 President, C. E. Wood.
 Manager, and pur. agt. Elmer Hinshaw.
 Wells drawn from, 8. Miles pipe line, 6.
 No. domestic consumers, 150.
 Price gas, gross, per month, domestic, \$2.
 Value of gas supplied, 1903, approx., \$2,500
 City supplied, Kennard.

Citizens Gas Co., Knightstown.

Supplies a part of Knightstown.

Gas Supply Co., Knightstown.

Capital stock, \$20,000.
 President, J. R. Bennett.
 Pur. agent and manager, Harry Watts.
 Wells drawn from, 13. Miles of pipe line, 15.
 No. domestic consumers, 400.
 Price gas, domestic, average stove per month,
 \$1.25.
 Value of gas supplied, 1903, \$11,000.
 Villages supplied: Greensboro, Spiceland,
 Dunruth and part of New Castle.

Grant City Natural Gas Co., Knightstown.

Capital stock, \$5,000.
 President, Nathaniel Edwards.
 Manager, Roscoe D. Edwards.
 Purchasing agent, H. C. Shaw.
 Wells drawn from, 4. Miles pipe line, 12.
 Number domestic consumers, 50.
 Price gas, gross, domestic, \$20 per year.
 Value of gas supplied, 1903, approx., \$1,000.
 Supplies Grant City and Maple Valley.

**Indiana Soldiers' and Sailors' Orphans Home
Knightstown.**

Superintendent, A. H. Graham.
 Managers, Board of Trustees.
 Wells drawn from, 14. Miles pipe line, 13.
 Value of gas supplied, 1903, approx., \$3,000.
 For the home only; wells failing rapidly.

Consumers' Natural Gas Co., Knightstown.

Capital stock, \$50,000.
 President, N. T. Nixon.
 Manager, J. E. Allright.
 Wells drawn from, 6. Miles pipe line 7.
 No. domestic consumers, 75.
 Price gas, gross, domestic, \$2 per month for
 3 stoves and 5 lights.
 Value of gas supplied, 1903, approx., \$3,000.
 (Co-operative concern, supplying its stock-
 holders only.)

Extract from report of Brooklyn Parks:

"The **Welsbach** Lights are better adapted for Park Roads, being closer to the ground and free from shadows, and giving a clear, straight, white light." See advertisement, page xx.

Knightstown Natural Gas Co., Knightstown.

Capital stock, \$50,000.
 President, L. P. Newby.
 Sec'y and mgr., T. B. Deem.
 Purchasing agent, T. B. Deem.
 Wells drawn from, 31. Miles pipe line, 20.
 No. domestic consumers, 700.
 Value of gas supplied, 1903, approx., \$23,000.

J. M. Leach Natural Gas Co., Kokomo.

Capital stock, \$10,000.
 President, J. M. Leach.
 Sec'y and treas., L. B. Hodgin.
 Wells drawn from, 21. Miles pipe line, 36.
 No. domestic consumers, 300.
 Price gas, gross, per month, domestic, \$3 per stove; per 1,000 c. f. 15c.
 Value gas supplied, \$32,000.

Lafayette Gas Co., Lafayette.

Capital stock, \$1,000,000.
 Bonds, \$1,000,000; due 1925; interest, 6 p. c.
 President, C. F. Dieterich.
 General manager, S. T. Murdock.
 Purchasing agent, S. T. Murdock.
 Wells drawn from, 90.
 Price gas, gross, domestic, per 1,000 c. f., 25c.
 Cities supplied: Lafayette, Dayton, Mulberry, Sharpsville and Michigantown.

Wabash Oil and Gas Co., LaFayette.

(Sold to Muncie Gas Light and Fuel Co.)

La Fontaine Natural Gas and Oil Co., La Fontaine.

Capital stock, \$6,000.
 President, G. F. Vandegrift.
 Managers, Messrs. Logan and Mason.
 Purchasing agent, W. H. Logan.
 Wells drawn from, 6. Miles pipe line, 7.
 No. domestic consumers, 160.
 Price gas, gross, per year, domestic, stoves, \$14.40; heaters, \$9.60; business, \$14.40; jets, \$1.20.
 Value of gas supplied, 1903, approx., \$3,000.
 City supplied, La Fontaine.

Consumers Gas, Oil and Water Co., Lewisville.

Capital stock, \$9,990.
 President, J. R. Martin.
 Manager and pur. agent, J. A. Bartlett.
 Wells drawn from, 8. Miles of pipe line, 8.
 Value gas supplied, 1903, \$3,000.
 No. domestic consumers, 100.
 Supplies Lewisville.

Farmers Gas, Oil and Water Co., Lewisville.

Capital stock, \$1,250.
 President, G. W. Legg.
 Managers, F. L. Dyer and A. J. Hall.
 Wells drawn from, 1. Miles pipe line, 3.
 Value of gas supplied, 1903, approx., \$300.

Richsquare Natural Gas Co., Lewisville.

Capital stock, \$5,000.
 President, Albert Stewart.
 Secretary and treas., O. A. Stubbs.
 Manager, Robert Hall.
 Purchasing agent, O. A. Stubbs.

Wells drawn from, 2. Miles pipe line, 7.
 No. domestic consumers, 14 (stockholders).
 Price gas, gross, domestic, per 1,000 c. f., 15c.
 Value of gas supplied, 1903, approx., \$250.

Logansport and Wabash Valley Gas Co., Logansport.

Capital stock, \$1,705,000.
 Bonds, \$1,720,000; interest, 6 p. c.
 President, Chas. F. Dieterich.
 Treasurer, A. B. Proal.
 Sec'y and gen'l mgr., S. T. Murdock.
 (Above report includes the manufactured and natural gas plants of Lafayette, Peru, Wabash and Decatur; see Ft. Wayne.)
 Price gas, gross, per 1,000 c. f., domestic, 12c.; industrial, 7.5c.

Ohio and Indiana Oil Co., Logansport.

(Pressure very light; thinking of abandoning business in spring, 1904.)
 Capital, \$1,000,000.
 President, F. B. Wilkinson.
 Manager and pur. agt. John F. Troutman.
 Wells drawn from, 13. Miles pipe line, 6.5.
 No. domestic consumers, 71.
 Price gas, gross, domestic, 25c.
 Value of gas supplied, 1903, approx., \$6,500.
 Cities supplied: Farmland and Parker.

McCordsville Natural Gas Co., McCordsville.

Capital stock, \$3,075.
 President, J. H. Kimberlin.
 Pur. agent and manager, J. G. McCord.
 Wells drawn from, 3. Miles pipe line, 2.5.
 No. domestic consumers, 47.
 Value of gas supplied, 1903, approx., \$532.
 Gas stoves in use, 40.
 City supplied, McCordsville.

Manilla Natural Gas Co., Manilla.

Capital stock, \$10,000.
 President, Thomas K. Mull.
 Secretary and treas., Frank Mull.
 Pur. agent and manager, J. E. Creed.
 Wells drawn from, 7. Miles pipe line, 8.
 Price gas, gross, domestic, 15c.
 No. domestic consumers, 115.
 Value of gas supplied, 1902, approx., \$3,000.
 Supplies Manilla.

Ada Oil and Gas Co., Marion.

(Out of business.)

Citizens Gas Co., Marion.

(Leased to Grant and Wabash Pipe Line Co., Pittsburg.)
 Cashier, Wm. J. Hudson, Marion.
 Wells drawn from, 24. Miles pipe line, 30.
 No. domestic consumers, 1,500.
 Price gas, gross, per 1,000 c. f., domestic, 13c.; industrial, 10c.
 Value of gas supplied, 1902, approx., \$40,000.
 City supplied, Marion.

Estep Gas Co., Marion.

(No report.)

The IMPROVED **Welsbach** STREET LIGHTING FIXTURES furnish the perfection of street lighting outfits. See advertisement, page xx.

Marion Gas Co., Marion.

President, T. N. Barnsdall, Pittsburg, Pa.
(Supplies Marion and vicinity. No report.)

Octave Oil and Gas Co., Marion.

Manager, J. J. Dunn.
Supplies part of Marion.

Hardman Natural Gas Co., Markleville.

Capital stock, \$1,500.
Manager, Francis M. Williams.
Wells drawn from, 2. Miles pipe line, 3.5.
No. domestic consumers, 15.
Value of gas supplied, 1903, approx., \$300.

Markleville Citizens Gas and Oil Co., Markleville.

Capital stock, \$8,000.
President, Chas. Jester.
Manager, John H. Younkin.
Purchasing agent, John H. Younkin.
Wells drawn from, 3. Miles pipe line, 4.
Price gas, gross, domestic, \$20 per year.
No. domestic consumers, 40.
Value of gas supplied, 1903, approx., \$800.
Supplies part of Markleville.

Markleville Natural Gas Co., Markleville.

Capital stock, \$4,000.
President, Allen Boram.
Manager, W. H. Hardy.
Purchasing agent, W. H. Hardy.
Wells drawn from, 3. Miles pipe line, 4.
No. domestic consumers, 75.
Value of gas supplied, 1903, approx., \$1,800.
Supplies Markleville.

Matthews Gas and Oil Co., Matthews.

Capital stock, \$50,000.
President, H. E. Drew.
Pur. agent and manager, Geo. M. Catterson.
Wells drawn from, 15. Miles pipe line, 55.
Price gas, gross, per 1,000, domestic 18c.
No. domestic consumers, 800.
Value gas supplied, 1903, \$20,000.
City supplied, Matthews.

Mechanicsburg Natural Gas and Oil Co., Mechanicsburg.

Capital stock, \$2,600.
President, C. B. Pendleton.
Manager, Will Ellison.
Treasurer, J. W. Goodwin.
Wells drawn from, 3. Miles of pipe line, 4.5.
Price gas, gross, domestic, \$1.75 per month.
Value gas supplied, 1903, \$900.
No. domestic consumers, 42.
Supplies Mechanicsburg.

Millgrove Natural Gas and Oil Co., Millgrove.

Capital stock, auth., \$7,000.
President, M. W. Lanning.
Secretary and pur. agt., G. W. Ludy.
Manager, J. E. McFarland.
Wells drawn from, 2. Miles pipe line, 7.
No. domestic consumers, 100.
Price gas, gross, domestic, \$8.25 per store.
Value of gas supplied, 1903, approx., \$1,957.51.
Supplies, Millgrove and vicinity.

Milner's Corner Natural Gas Co., Milner's Corner.

Capital stock, \$2,000.
President, Charles Albea.
Wells drawn from, 1. Miles pipe line, 10.
No. domestic consumers, 30.
Price gas, gross, domestic, \$9 per year.
Value of gas supplied, 1903, \$600.

Milroy Natural Gas Co., Milroy.

(No report.)

Citizens Gas and Oil Co., Mohawk.

Capital stock, \$10,000.
President, J. E. Barnard.
Sec'y and manager, O. A. Collins.
Wells drawn from, 4. Miles pipe line, 20.
Price of gas, gross, domestic, per year, \$5.
No. domestic consumers, 400.
Value of gas supplied, 1903, approx., \$5,000.
City supplied, Mohawk.

Citizens Natural Gas and Oil Co. of Morristown Morristown.

Capital stock, \$10,000.
President, Joseph Myer.
Purchasing agents, Board of Directors.
Wells drawn from, 7. Miles pipe line, 12.
No. domestic consumers, 170.
Price gas, gross, per month, domestic, heating, \$1.50; cooking, \$1.25.
Value gas supplied, \$3,749.96.
City supplied, Morristown.

Heat, Light and Power Co., Muncie.

(No report.)

Manufacturers Fuel Co., Muncie.

(No report.)

Manufacturers Natural Gas Co., Muncie.

(Private line furnishing factory of Hemingway Glass Co.)

Muncie Gas Light and Fuel Co., Muncie.

Capital stock, pref. \$400,000; com. \$1,000,000.
Bonds, \$400,000; due 1923; interest, 5 p. c.
President, Charles A. Meeker.
Secretary, Robert H. Adams.
Manager and pur. agent, T. M. Griffin.
Wells drawn from, 136. Miles pipe line, 95.
No. domestic consumers, 3,300.
Price gas, gross, per 1,000 c. f., domestic, 25c.
Value of gas supplied, 1903, approx., \$125,475.
Supplies Muncie.

Citizens Natural Gas Co., New Castle.

Capital stock, \$25,000.
President, N. B. Shaffer.
Manager, A. E. Wilkinson.
Wells drawn from, 19. Miles pipe line, 20.
No. domestic consumers, 380.
Price gas, gross, domestic, per 1,000 jets, 20c.; stoves per month, \$2.
Value of gas supplied, 1903, approx., \$17,000.
Supplies New Castle.

Enterprise Gas Co., New Castle.

(No report.)

WELSBACH STREET LIGHTING COMPANY OF AMERICA :

GENTLEMEN : I am pleased to add my recommendation to your system of street lighting. From my experience of street lighting, particularly in cities where the streets abound in shade trees I have found it vastly superior to electric lighting, and believe that it is the proper way for lighting all streets. (Signed) HENRY S. KEARNY, Commissioner. City of New York, Department of Public Buildings, Lighting and Supplies.

Noblesville Gas and Improvement Co., Noblesville.

Capital stock, \$100,000.
 President, C. R. Heath.
 Secretary and treasurer, C. R. Davis.
 Manager, C. R. Heath.
 Purchasing agent, C. R. Heath.
 Wells drawn from, 22. Miles pipe line, 35.
 No. domestic consumers, 1,500.
 Price gas, gross, per 1,000 c. f., domestic, 25c.; industrial, 15c.
 Value of gas supplied, 1903, approx., \$40,000.
 City supplied, Noblesville.

Nora Natural Gas Co., Nora.

Capital stock, \$2,500.
 President, R. J. Moffitt.
 Secretary, J. B. Haverstick.
 Pur. agent and mgr, P. T. Johnson.
 Wells drawn from, 1. Miles pipe line, 10.
 No. domestic consumers, 19.
 Value of gas supplied, 1903, \$250.
 City supplied, part of Nora.

Farmers Fuel Gas Co., Oakville.

Capital stock, \$4,000.
 President, John Robe.
 Wells drawn from, 1. Miles pipe line, 13.
 Value of gas supplied, 1903, approx., \$200.

J. T. Holsinger, Oakville.

Capital stock, \$2,500.
 President, J. T. Holsinger.
 Manager, and pur. agent, J. T. Holsinger.
 Wells drawn from, 2. Miles pipe line, 4.5.
 No. domestic consumers, 31.
 Value of gas supplied, \$691.88.

Oakville Natural Gas Co., Oakville.

Capital stock, \$1,130.
 President, J. T. Holsinger.
 Purchasing agent, Geo. Hoover.
 Manager, Jeff. Hoover.
 Wells drawn from, 2. Miles pipe line, 1.
 No. domestic consumers, 40.
 Price gas, gross, per month, domestic, 10c. per jet; \$1 per stove.
 Value of gas supplied, 1903, approx., \$500.
 City supplied, Oakville.

Ogden Natural Gas Co., Ogden.

Capital stock: pref. \$1,000, com. \$3,000.
 President, Cornelius Ratcliff.
 Vice-president, James A. Moffitt.
 Pur. agent and manager, John H. Herbst.
 Wells drawn from, 8. Miles pipe line, 12.
 No. domestic consumers, 125.
 Price gas, gross, per month, domestic, \$1.50.
 City supplied, Ogden.

Pendleton Natural Gas Co., Pendleton.

Capital stock, \$17,350.
 President, E. W. Collis.
 Manager, O. W. Brownback.
 Purchasing agent, O. W. Brownback.
 Wells drawn from, 22. Miles pipe line, 27.
 No. domestic consumers, 650.
 Price gas gross: industrial per 1,000, 15c.
 Value of gas supplied, 1903, approx., \$15,000.

Cities supplied: Pendleton and vicinity.
 (231 of above consumers on free list; amount paid for gas 1903, \$7,312.)

O'Donnel Gas and Oil Co., Pennville.

Agent, J. D. Wilson.
 Price gas per 1,000 c. f., 25c.; per store, \$3.
 Supplies Pennville.

Citizens Gas and Oil Mining Co., Portland.

Capital stock, \$20,000.
 President, B. F. Fulton.
 Mgr. sec'y and treas., Jas. L. Fulton.
 Wells drawn from, 15. Miles pipe line, 20.
 Price gas per 1,000 c. f., domestic, 25c.
 No. domestic consumers, 250.
 Value of gas supplied, 1903, approx., \$12,500.
 City supplied, part of Portland.

Portland Natural Gas and Oil Co., Portland.

Capital stock, \$70,000.
 President, W. H. Reed.
 Manager, J. G. Crowell.
 Wells drawn from, 26.
 Miles of pipe line, 12.
 Price gas gross: domestic, per 1,000, 20c.
 Value gas supplied, 1903, \$22,000.
 No. domestic consumers, 600.
 Supplies Portland.

Marion Creek Natural Gas Co., Priam.

(No report.)

Trenton Natural Gas Co., Priam.

Capital stock, \$2,000.
 President, Orlando Sipe.
 Manager, E. C. Landon.
 Wells drawn from, 1. Miles pipe line, 3.
 No. domestic consumers, 30.
 Price gas, gross, per year, domestic, \$15.
 Value of gas supplied, 1903, approx., \$2,000.

Red Key Citizens Natural Gas, Fuel, Light and Petroleum Oil Co., Red Key.

Capital stock, \$25,000.
 President, C. C. Ayers.
 Secretary, J. W. Fiers.
 Manager, Bert Hammitt.
 Purchasing agent, J. B. Clevenger.
 Wells drawn from, 16. Miles pipe line, 12.
 No. domestic consumers, 290.
 Price gas, gross, per month, domestic, \$1.25 per stove.
 Value of gas supplied, 1903, approx., \$5,000.
 City supplied, part of Red Key.

Red Key Transportation Co., Red Key.

Cities supplied: Greenville, O., and Dayton.

Richmond Light, Heat and Power Co., Richmond.

(No report.)

Richmond Natural Gas Co., Richmond.

Capital stock, \$600,000.
 President, M. C. Henley.
 Secretary and manager, E. G. Hibberd.
 Wells drawn from, 75. Miles pipe line, 50.
 No. domestic consumers, 4,200.
 Price gas, gross, per 1,000 c. f., domestic, 25c.

Welsbach Street Lighting Co. of America

Value of gas supplied, 1903, \$155,600.
Cities supplied: Richmond and Greensfork.

Roseburg Gas Co., Roseburg.

Capital stock, \$3,400.
President, G. W. Rader.
Manager, A. A. Burrier.
Wells drawn from, 1. Miles pipe line, 0.25.
No. domestic consumers, 4.
Price gas, domestic \$1 per stove per month.
Value gas supplied, 1903, \$50.

Citizens Gas and Oil Co., Royerton,

Capital stock, \$2,000.
President, T. J. Mansfield.
Manager, Geo. K. Morgan.
Wells drawn from 1. Miles pipe line, 3.
No. domestic consumers, 40.
Price gas, gross, domestic, \$2 per month.
Value of gas supplied, 1903, approx. \$900.
City supplied, Royerton.

Central Fuel Co., Rushville.

Capital stock, \$55,000.
President, Wm. J. Henley.
Manager, Wm. M. Frazee.
Purchasing agent, Wm. M. Frazee.
Wells drawn from, 11. Miles pipe line, 35.
No. domestic consumers, 225.
Price gas, gross, per 1,000 c. f., domestic, 15c.;
industrial 10c.
Value of gas supplied, 1903, approx., \$12,000.
City supplied, part of Rushville.

Peoples Natural Gas Co., Rushville.

Capital stock, \$19,800.
President, Wm. E. Havens.
Secretary, George W. Osborne.
Superintendent, James Keating.
Wells drawn from, 24. Miles pipe line, 25.
No. domestic consumers, 400.
Price gas, gross, per 1,000 c. f., domestic, 15c.
Value of gas supplied, 1903, approx., \$15,000.
City supplied, Rushville.

Rushville Natural Gas Co., Rushville.

(No report.)

Consumers Natural Gas Co., St. Paul.

Capital stock, \$2,300.
President, James H. Martin.
Treasurer, J. R. Eck.
Secretary and manager, C. D. Harwood.
Wells drawn from, 2. Miles pipe line, 1.
No. domestic consumers, 60.
Value of gas supplied, 1903, approx., \$500.
City supplied, St. Paul.

St. Paul Natural Gas, Oil and Water Co., St. Paul.

Capital stock, \$6,000.
President, Cumberland Ridlen.
Secretary and manager, C. D. Harwood.
Treasurer, James A. Favor.
Wells drawn from, 11. Miles pipe line, 7.
No. domestic consumers, 150.
Value of gas supplied, 1903, approx., \$2,500.
City supplied, St. Paul.

Jackson Natural Gas Co., Sexton,

Capital stock, \$2,100.
President, A. T. Lewark.
Manager, B. F. Hamilton.
Purchasing agent, A. T. Lewark.
Wells drawn from, 1. Miles pipe line, 0.5.
No. domestic consumers, 12.
Price gas, gross, domestic, \$30 per year;
industrial, \$18.
Value of gas supplied, 1903, approx., \$350.

Citizens Natural Gas, Oil and Water Co., Shelbyville.

Capital stock, \$71,625.
President, Albert F. Wray.
Pur. agent, Cornelius Means.
Treasurer, A. J. Thurston.
Manager, Board of Directors.
Wells drawn from, 38. Miles pipe line, 60.
No. domestic consumers, about 3,000 fires.
(This company does not sell gas, as it is a mutual organization and belongs to the citizens who own or rent the stock. The gas is used for domestic purposes only. There are 2,870 shares; each share is entitled to one fire through a No. 7 mixer, and any one using gas has to own or rent a share at \$2 to \$2.50 per month for cooking and \$3.50 to \$4 for heater. Face value of shares of stock is \$25 each, and they assess the stock for running expenses. The assessment per share, 1902, \$5.)

Southern Indiana Gas Co., Shelbyville.

Manager, P. G. Kamp.
Towns supplied: Shelbyville and Greenfield.

Farmers Natural Gas Co., Spiceland.

Capital stock, \$2,000.
President, Ed. Hall.
Manager, Harvey Miliken.
Pur. agent, J. W. Black.
Wells drawn from, 5. Miles pipe line, 20.
No. domestic consumers, 53.
Value of gas supplied, 1903, \$1,500.
Supply only stockholders.

Summitville Mining Co., Summitville.

Capital stock, \$3,000.
President, Maurice Warner.
Manager and pur agent, Maurice Warner.
Wells drawn from, 16. Miles pipe line, 25.
No. domestic consumers, 400.
Price gas, gross, domestic, 25c.
Value of gas supplied, 1903, approx., \$15,000.
City supplied, Summitville.

Swayzee Mining Co., Swayzee.

(No report.)

Sycamore Natural Gas Co., Sycamore.

Capital stock, \$3,200.
President, T. E. Windsor.
Manager, T. E. Windsor.
Purchasing agent, T. E. Windsor.
Wells drawn from, 3. Miles pipe line, 7.
Price gas, gross, per year, domestic, \$20.

THE **Welsbach** STREET LIGHT possesses great economy over any other method of street illumination. See advertisement, page xx.

T. E. Pickett, Sycamore.

(No report.)

Citizens Gas Co., Tipton.

Superintendent, E. A. Hasken.
Supplies part of Tipton, Ind.

Tipton Light, Heat and Power Co., Tipton.

(No report.)

Lake Branch Mining Co., Upland.

Capital stock, \$6,000.
President, David Horner.
Secretary, T. Forehand.
Treasurer, O. Hinline.
Managed by the Board of Directors.
Purchasing agent, T. Forehand.
Wells drawn from, 2. Miles pipe line, 15.
No. domestic consumers, 60.
Price gas, gross, per year, domestic, \$15.
Value of gas supplied, 1903, approx., \$2,000.

Taylor University Gas Co., Upland.

President, T. W. Williams.
Manager, T. W. Williams.
No. wells drawn from, 1. Pipe line, 3,000 ft.
Value gas supplied, 1903, \$1,000.
Supplies the University.

Upland Mining Co., Upland.

Capital stock, \$4,000.
President, Richard Duran.
Manager, Jacob Bugher.
Purchasing agent, Jacob Bugher.
Wells drawn from, 4. Miles pipe line, 3.6.
No. domestic consumers, 230.
Price gas, per mo., domestic, winter, \$3;
summer, \$1.60.
City supplied, Upland.

Grubb Natural Gas Co., Waldron.

Capital stock, \$800.
Owners, Sarah J. & D. Grubb.
Secretary, Sarah J. Grubb.
Wells drawn from, 1. Miles pipe line, 1.
No. domestic consumers, 11.
Value of gas supplied, 1903, approx., \$300.
Gas stoves in use, 4.

McCain Gas and Oil Co., Waldron.

(No report.)

Waldron Natural Gas, Oil and Water Co., Waldron.

Capital stock, \$10,000.
President, S. P. Stroup.
Secretary, Everett Haymond.
Purchasing agent, Everett Haymond.
Wells drawn from, 8. Miles pipe line, 3.5.
No. domestic consumers, 85.
Price gas, gross; domestic, per mo. \$1.50 and
\$2.
Value of gas supplied, \$1,000 to \$1,200.
City supplied, part of Waldron.

When Gas, Oil and Water Co., Waldron.

Capital stock, \$1,000.
President, J. I. Haymard.
Manager, C. H. Haymard.
Wells drawn from, 1. Miles pipe line, 0.5.
No. domestic consumers, 5.
Value of gas supplied, 1903, approx., \$200.

Hanna and Masters Natural Gas Co., Warrington.

Capital stock, \$2,200.
President, Jacob Masters.
Manager, Jacob Masters.
Wells drawn from, 8. Miles pipe line, 10.
No. domestic consumers, 250.
Price gas, gross, per year, domestic, \$15.
Value of gas supplied, 1903, approx., \$3,500.
Cities supplied: Warrington and Shirley.

Northern Gas Co., Warrington.

Capital stock, \$1,500.
President, J. J. Kennedy.
Wells drawn from, 1. Miles pipe line, 1.75.
(Co-operative plant consisting of 9 stock-
holders.)

Central Gas Co., Westfield.

Capital stock, \$10,000.
President, Joel Hill.
Secretary, John R. Brown.
Wells drawn from, 1. Miles pipe line, 6.
No. domestic consumers, local, 22.

Eagletown Pioneer Natural Gas Co., Westfield.

(Wells rapidly drying up.)

Westfield Gas and Milling Co., Westfield.

(No report.)

Gilboa Natural Gas and Oil Co., Westland.

Capital stock, \$2,000.
President R. F. Cook, Charlottesville.
Wells drawn from 3. Miles pipe line 10.
Number dom. consumers, 24 stockholders.
Value of gas supplied, 1903, approx., \$480.

Westland Natural Gas Co., Westland.

President, Nathan N. Batles.
Treasurer, John N. Cork.
Wells drawn from, 2. Miles pipe line, 4.5.
No. domestic consumers, private, 19.

Citizens Gas Co., Wilkinson.

Capital stock, \$1,000.
President, S. C. Faurot.
Wells drawn from, 1. Miles pipe line, 1.
Number domestic consumers, 25.

Wilkinson Bottle Co., Wilkinson.

President, W. H. Scott.
Manager, Edward S. Hutton.
Wells drawn from, 3. Miles pipe line, 1.
Supplies only factory.

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA can furnish lanterns and fixtures for every possible contingency that may occur. See advertisement, page xx.

Value of gas supplied, 1903; approx., \$460.
Supplies Wilkinson partly.

Scrabbletown Natural Gas and Supply Co., Wilkinson.

President, M. Bates.
Sec'y and treas., Wm. R. Gibbs.
Wells drawn from, 1. Miles pipe line, 9.
No. domestic consumers, 25.
Value of gas supplied, 1903, approx., \$400.
Price of gas, domestic, per year, \$15.

Wilkinson Natural Gas Co., Wilkinson.

Capital stock, \$3,000.
President, W. H. Power.

Treasurer and manager, J. P. Julian.
Secretary and pur. agent, P. K. May.
Wells drawn from, 4. Miles pipe line, 3.
No. domestic consumers, 150.
Price gas, gross, per year, dom., \$21.90 to \$30.
Value of gas supplied, 1903, approx., \$2,000.
Cities supplied: Wilkinson and vicinity.

Rock Oil Co., Winchester.

Towns supplied: Winchester and Selma.

Yorktown Natural Gas and Oil Co., Yorktown.

(No report.)

KANSAS.

Caney Gas Co., Caney.

(Purchases gas from Caney Gas, Oil and Mining Co.)
President, S. M. Porter.
Manager, E. B. Skinner.
Purchasing agent, W. C. Meeker.
Miles pipe line, 5.
No. domestic consumers, 400.
Value of gas supplied, 1903, approx., \$10,000.
Supplies Caney.

Caney Gas Oil and Mining Co., Caney.

Capital stock, \$62,000.
Bonds, \$17,500; due 1904-1915; int. 6 p. c.
President, S. M. Porter.
Secretary, S. H. Barr.
Treasurer, John Todd.
Manager, E. B. Skinner.
Purchasing agent, W. C. Meeker.
No wells drawn from, 3.
Miles of pipe line, 25.
Price gas domestic, per 1,000 c. f., 25c.
Value gas supplied, 1903, \$20,000.
No. domestic consumers, 300.
Sells gas to Caney Gas Co., which supplies city.
Supplies Tyro direct.

City of Chanute, Chanute.

Capital stock, \$5,000.
Bonds, \$5,000; due 1908; interest 5 p. c.
Mayor, John F. Roe.
Secretary and mgr., John C. Penny.
Purchasing agent, John C. Penny.
Wells drawn from, 20. Miles pipe line, 15.
No. domestic consumers, 1,400.
Price gas, gross, per month, domestic, 50c. to \$2.50; Light, 10c. per jet. \$2 per stove; industrial, 4c. per 1,000 c. f.
Value of gas supplied, 1903, approx., \$65,000.
City supplied, Chanute.

Chanute Oil and Gas Co., Chanute.

Capital stock, \$5,000.
President, M. T. Jones.
Manager, C. P. Garvin.
Wells drawn from, 2. Miles pipe line, 1.5.
Value of gas supplied, 1903, approx., \$750.

Kansas Vitrified Brick Co., Chanute.

Capital stock, \$50,000.
President, G. N. Lindsay.
Manager and pur. agent, S. Winfield.
No. wells drawn from, 5. Miles of pipe line, 4.
Price of gas, gross; domestic, \$1 per month (to their employees only).
Value of gas supplied, 1903, \$10,000.
No. domestic consumers, 20.

Cherryvale Gas Co., Cherryvale.

(No report.)
Supplies Cherryvale.

Peoples Gas Co., Coffeyville.

Capital stock, \$250,000.
Bonds, \$250,000; due 1910; interest, 6 p. c.
President, C. H. Welch.
General manager, C. H. Welch.
Wells drawn from, 20. Miles pipe line, 175.
No. domestic consumers, 1,200.
Price gas, gross, per month, domestic, \$1.50 to \$2; industrial, 6c. per 1,000 c. f.
Present production, 75,000,000 c. f.
City supplied, Coffeyville.

Elk City Gas and Oil Co., Elk City.

Capital stock, \$30,000.
Bonds, \$12,000; due 1912; Int., 7 p. c.
President, F. W. Baker.
Manager, F. W. Baker.
Pur. agent, A. R. Slocum.
Wells drawn from, 3. Miles of pipe line, 10.
No. domestic consumers, 200.
Price gas, domestic, flat rate of \$1.50 to \$3 per stove per mo.
Value of gas supplied, 1903, \$5,500.
Supplies Elk City.

Erie Gas and Mineral Co., Erie.

Capital stock, \$15,000.
President, O. Denious.
Manager, J. A. Wells.
Purchasing agent, J. A. Wells.
Wells drawn from, 11. Miles pipe line, 18.
No. domestic consumers, 350.
Price gas, gross, per 1,000 c. f., domestic, 25c.; industrial, 20c.

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA will furnish complete plants for the lighting of the streets of cities, the gas being furnished by the gas company. See advertisement, page xx.

Value of gas supplied, 1903, approx., \$12,000.
City supplied, Erie.

Gas Oil and Mineral Co., Eureka.

(Not yet in operation.)
Capital stock, \$20,000.
President, W. W. Morris.
Secretary, F. B. Gregg.

Humboldt Gas Co., Humboldt.

(No report.)

Independence Natural Gas Co., Independence.

(No report.)

Iola Gas Co., Iola.

Capital stock, \$6,000.
President, H. A. Ewing.
Manager, H. W. Ewing.
Treasurer, L. L. Northrup.
Pur. agent and sec'y, A. M. Ewing.
No. wells drawn from, 12.
Miles of pipe line, 25.
Price gas, gross; domestic, 10c. per 1,000;
stove per mo. \$1; industrial 10c. per 1,000.
Value gas supplied, 1903, \$25,000.
No. domestic consumers, 2,000.
Supplies Iola.

Neodesha Natural Gas Co., Neodesha.

(Owned by city.)

City clerk, G. O. Lines.

Consolidated Fuel and Light Co., Neodesha.

Capital stock, \$25,000.
President, F. E. Lyster.

Purchasing agent, O. A. Evans.
Wells drawn from, 3. Miles pipe line, 5.
Supplies Benedict.

Franklin Light and Fuel Co., Paola.

Supplies Paola.

Parsons Natural Gas Co., Parsons.

Capital stock, \$100,000.
Bonds, \$40,000; interest, 7 p. c.
President, J. S. Connelly.
Manager, J. S. Connelly.
Secretary and cashier, H. O. Williams.
Wells drawn from, 2. Miles pipe line, 27.
No. domestic consumers, 2,000.
Price gas, gross, per 1,000 c. f., domestic, 25c.;
industrial, 10c., 8c. and 7c.
Value of gas supplied, 1903, approx., \$60,000.
City supplied, Parsons.

Interstate Oil and Gas Co., Peru.

Capital stock, \$1,000,000.
President, H. M. Powell.
Manager, Wm. Geiser.
Purchasing agent, Wm. Geiser.
Wells drawn from, 10 oil; 2 gas. Miles pipe
line, 25.
No. domestic consumers, 100.
Price gas, gross, per month, domestic, \$1.50
per stove.
Value of gas supplied, 1903, approx., \$1,800.
Cities supplied: Peru, Sedan.

O. A. Evans, Gas Plant, Thayer.

(No report.)

KENTUCKY.

Triple State Natural Gas Co., Ashland.

Supplies: Catlettsburg, Ashland, Louisa and
Inez, Ky.; Ironton and Coalgrove, Ohio;
Guyandotte, Cerrdo, Huntington, Cen-
tral City and Kenova, W. Va.

Kentucky Heating Co., Louisville.

Capital stock, \$700,000.

Bonds, \$100,000; due 1915; interest, 6 p. c.
President, Donald McDonald.
Supt. distribution, Wm. H. Crutcher.
Wells drawn from, 50. Miles of pipe line, 32.
Price gas, gross; domestic and industrial
55c. per 1,000.
No. domestic consumers, 5,200.
City supplied, Louisville.

NEW YORK.

Akron Natural Gas Co., Akron.

Capital stock, \$300,000.
President, T. B. Crarry.
Purchasing agent, J. D. Eckerson.
Wells drawn from 21.
No. domestic consumers, 470.
Price gas, gross, domestic, 25c.
Supplies: Akron and Clarence.

Alden Natural Gas Co., Alden.

Price gas, per 1,000 c. f., 35 c.; disc., 20 p. c.
(No report.)

Mutual Gas Co., Andover.

Capital stock, \$50,000.
President, W. J. Penny.
Manager, W. J. Penny.
Purchasing agent, W. J. Penny.
Wells drawn from, 93. Miles pipe line, 50.
No. domestic consumers, 892.
Price gas, per 1,000 c. f., domestic, 25c.;
industrial, 15c.
Value gas supplied, 1903: \$28,394.23.
Cities supplied, Andover, Whitesville, Green-
wood and Alfred.

The perfection of the service rendered where the IMPROVED **Welsbach** STREET LIGHT is in use has been particularly noted. See advertisement, page xx.

Attica Natural Gas Co., Attica.

Capital stock, \$10,000.
 President, C. B. Benedict, Jr.
 Secretary, C. W. Slack.
 Manager, C. W. Slack.
 Purchasing agent, C. W. Slack.
 Wells drawn from, 3. Miles pipe line, 5.
 No. domestic consumers, 130.
 Price gas, gross, per 1,000 c. f., domestic and industrial, 40c.
 Value of gas supplied, 1903, approx., \$4,000.
 Village supplied, Attica.

Attica Water Gas and Electric Co., Attica.

(No report.)

Baldwinsville Light and Heat Co., Baldwinsville.

Capital stock, 100,000.
 President, Wm. F. Morris.
 Manager, J. T. Wilkins.
 Purchasing agent, J. T. Wilkins.
 Wells drawn from, 10. Miles of pipe line, 8.
 No. domestic consumers, 450.
 Price gas, gross, dom. and industrial, 40c.
 Value gas supplied, 1903; \$12,000.
 City supplied, Baldwinsville.

Buffalo Natural Gas Fuel Co., Buffalo.

Capital stock, \$350,000.
 President, Daniel O'Day.
 Secretary and treasurer, John McManus.
 Gen'l manager, E. Strong.
 Purchasing agent, C. M. Holbrook.
 Price gas, gross, domestic, 32c. per 1,000.
 City supplied, Buffalo.

Caledonia Natural Gas Co., Caledonia.

Capital stock, \$10,000.
 President, J. C. Fennent.
 Secretary and treas., M. C. Fennent.
 Wells drawn from, 10.
 Miles pipe line, 2.
 Price gas, domestic, 80c.
 No. domestic consumers, 170.
 Value gas supplied, 1903, \$4,000.
 Supplies Caledonia.

Canisteo Gas Co., Canisteo.

Capital stock, \$25,000.
 Bonds, \$25,000.
 President, William T. Morris.
 Treasurer, William T. Morris.
 Secretary, T. W. Summers.
 Gen'l manager, T. W. Summers.
 Superintendent, D. H. Newman.
 Superintendent of works, C. A. Schwarm.
 Wells drawn from, 40; miles pipe line, 10.
 No. domestic consumers, 520.
 Price gas, domestic, gross, 30c., net, 27c.; industrial, gross, 25c., net, 23c.
 Value of gas supplied, 1903, approx., \$5,000.
 City supplied, Canisteo.

Clarence Mutual Nat. Gas Co., Clarence.

(No report.)

Empire Gas and Fuel Co., Cuba.

(See Wellsville, N. Y.)

Gowanda Natural Gas Co., Gowanda.

Capital stock, \$2,200.
 President, Geo. E. Moench.
 Manager, W. R. Smallwood.
 Purchasing agent, W. R. Smallwood.
 Wells drawn from, 5. Miles pipe line, 5.5.
 No. domestic consumers, 520.
 Price gas, per 1,000 c. f., domestic, 30c.; dis. 2c.
 Value gas supplied, 1903, \$16,985.25.
 City supplied, Gowanda.

Ontario Gas Co., Honeoye Falls.

Capital stock, \$200,000.
 Bonds, \$50,000; due 1915; interest, 6 p. c.
 President, A. M. Wellman.
 Treasurer, Guy Wellman.
 Pur. agent and manager, E. B. Kellogg.
 Wells drawn from, 6; miles pipe line, 30.
 Price gas, gross, per 1,000 c. f., domestic, 30c; industrial, 15c.
 No. domestic consumers, 500.
 Value gas supplied, 1903, \$15,000.
 Villages supplied: Honeoye Falls, Lima, Holcomb, West Bloomfield, East Bloomfield and North Bloomfield.

Hornell Gas Light Co., Hornellsville.

Capital stock, \$75,000.
 Bonds, \$125,000; due, 1931; int., 5 p. c.
 President, William T. Morris.
 Treasurer, William T. Morris.
 Secretary and gen. man'ger, T. W. Summers.
 Superintendent of works, C. A. Schwarm.
 Wells drawn from, 185; miles pipe line, 40.
 No. domestic consumers, 2,600.
 Price gas, per 1,000 c. f., domestic, gross, 30c.; industrial, gross, 25c.
 Value of gas supplied, 1903, approx., \$30,000.
 City supplied, Hornellsville.

Jordan Natural Gas Co., Jordan.

(Supplies Jordan. No report.)

Sandy Creek Oil and Gas Co., Ltd., Lacona.

Capital stock, \$15,000.
 President, E. H. Sargent.
 Sec'y and treas., G. N. Harding.
 Purchasing agent, G. N. Harding.
 Wells drawn from, 12; miles pipe line, 10.
 No. domestic consumers, 200.
 Price gas, gross, per 1,000 c. f., domestic, and industrial, 35c.
 Value of gas supplied, 1903, approx., \$4,500.
 Cities supplied: Lacona and Sandy Creek.

Keystone Gas Co., Olean.

Office, Tradesmens Building, Pittsburg, Pa.
 Capital stock, \$100,000.
 President, E. O. Emerson.
 Secretary and treasurer, J. N. Pew.
 Purchasing agent, Arthur E. Pew.
 Manager, J. A. Johnson.
 Price gas per 1,000 c. f., domestic, 29c.; industrial, 13.5c.
 No. domestic consumers, 2,200.
 Cities supplied, Olean, N. Y., and suburbs.

Beware of infringements and imitations. **THE WELSBACH STREET LIGHTING COMPANY OF AMERICA** is the sole proprietor of **THE WELSBACH SYSTEM OF STREET LIGHTING.** See advertisement, page xx.

Producers Gas Co., Olean.

Manager, E. M. Johnson.
 Cities supplied: Olean, Little Genesee, Ceres,
 Portville, Westons, Nile, Friendship,
 Belmont, Belfast and Angelica.

Pulaski Gas and Oil Co., Ltd., Pulaski.

Capital stock, \$25,000.
 President, Mrs. G. W. Douglas.
 Mgr. and pur. agent, Geo. M. Douglas.
 Wells drawn from, 23. Miles pipe line, 10.
 No. domestic consumers, 375.
 Price gas, gross, domestic, 50c.
 Value of gas supplied, 1903, approx., \$8,000.
 Cities supplied, Pulaski.

Salamanca Gas Co., Salamanca.

(No report.)

Empire Gas and Fuel Co., Ltd., Wellsville.

Capital stock, \$1,000,000.
 Bonds, \$250,000; due, \$25,000 semi-annually;
 interest, 6 p. c.
 President, E. C. Bradley.
 Vice-president, H. Bradley.
 Sec'y and treas., J. B. Bradley.
 Assistant treasurer, G. H. Bradley.
 Wells drawn from, 210.
 No. domestic consumers, 5,500.
 Price gas, gross, per 1,000 c. f., domestic, 25c.
 and 30c.; industrial, 20c.
 Cities supplied: Wellsville, Bolivar, Cuba,
 Scio, Hornellsville, Canisteo, Almond and
 several small towns.

OHIO.**Ashtabula Gas Co., Ashtabula.**

Capital stock, \$150,000; annual div., 5 p. c.
 Bonds, \$60,000; due 1915; interest, 5 p. c.
 President, Geo. W. Wright.
 Mgr. and pur. agent, F. W. Stone.
 Secretary, E. S. Templeton.
 No. wells drawn from, 7.
 Miles of pipe line, 22.
 Price gas, gross, 27c. per 1,000 c. f.; disc. 2 p. c.
 Value of gas supplied, 1903, approx., \$30,000.
 No. domestic consumers, 2,700.
 Gas stoves in use, 4,000.
 Supplies Ashtabula.

Athens Gas Light and Electric Co., Athens.

Superintendent, J. A. Hodgson.
 (No report.)

United Gas Co., Barnesville.

(No report.)

Bellevue Gas Co., Bellevue.

(Purchased by Logan Natural Gas and Fuel Co.)

Capital stock, \$40,000.
 President, S. A. Wheeler.
 Purchasing agent, E. P. Whitcomb.
 Manager, P. W. Luper.
 Pop. dist. supplied, 4,500. No. meters, 550.
 Miles of mains, approximate, 9.
 Price gas, 1903: Light and Fuel, gross, 33c.
 net, 30c.
 Annual output, approx., 12,000,000 c. f.
 Candle-power, 20.
 Proportion sold for fuel purposes, 50 p. c.
 Lowest pressure for gas stoves, 2 in.

Berea Pipe Line Co., Berea.

(No report.)
 Superintendent, J. M. Weaver.

Bowling Green Gas Co., Bowling Green.

Capital stock, \$50,000.
 President, J. T. Lynn.
 Sec'y and treas., F. K. Pelton.
 Manager, W. H. Ross.
 Purchasing agent, J. T. Lynn Co.

Price gas, domestic and industrial, 40c.

No. domestic consumers, 860.

(Purchases gas from Northwestern Ohio
 Natural Gas Co.)

Supplies Bowling Green.

Cadiz Gas Co., Cadiz.

Capital stock, \$30,000.
 Purchasing agent, R. Cunningham.
 Wells drawn from, 5. Miles pipe line, 5.
 No. domestic consumers, 250.
 Price gas, gross, per 1,000 c. f., domestic, 15c.
 Value of gas supplied, 1903, \$6,000.
 City supplied, Cadiz.

National Oil and Gas Co., Caldwell.

Capital stock, \$80,000.
 Bonds, \$30,000; due 1904-'05; interest, 6 p. c.
 President, John S. Archer.
 Manager, John S. Archer.
 Sec'y and treas., C. B. Barry.
 Wells drawn from, 11. Miles pipe line, 32.
 No. domestic consumers, 660.
 Price gas, gross, domestic, 20c per 1,000 c. f.
 Cities supplied: Lower Salem, Warner,
 Lowell, Coal Run, Beverly, Waterford
 and Watertown.

Cambridge Oil and Gas Co., Cambridge.

Capital stock, \$20,000.
 President, Charles L. Campbell.
 Treasurer, H. D. Reeve.
 Manager, S. C. Hoyt.
 Wells drawn from, 4. Miles pipe line, 2.
 (No gas sold; used to pump wells.)

United Gas Co., Cambridge.

(No report.)

Centerburg Gas and Oil Co., Centerburg, O.

(Not incorporated.)
 Treasurer, C. H. Bishop.
 Wells drawn from, 4.
 Gas sold to Ohio Fuel Supply Co.

Chester Hill Fuel and Light Co., Chester Hill.

Manager, R. G. Mains.
 Wells drawn from, 1. Miles pipe line, 6.

Have you seen **THE WELSBACH** SYSTEM OF STREET LIGHTING in operation? We invite examination and comparison. See advertisement, page xx.

No. domestic consumers, 200.
 Price gas, gross, domestic, 18c. per 1,000 c. f.
 Value of gas supplied, 1903, approx., \$4,000.
 Supplies Chester Hill.

Buckeye Gas Co., Circleville.
 (No report.)

Circleville Light and Power Co., Circleville.
 (See manufactured gas dep't.)

Coshocton Gas Co., Coshocton.

Capital stock, \$80,000,000.
 Bonds, \$60,000; due 1921; interest 6 p. c.
 President, D. E. Sapp.
 Secretary, E. B. Smith.
 Purchasing agent, T. C. Jones.
 Superintendent, H. G. Owens.
 Miles of pipe line, 20. No. meters, 750.
 Price gas per 1,000 c. f., 25c. and 28c.
 Gas stoves in use, approximate, 1,200.
 Supplies Coshocton.

East Ohio Gas Co., Cleveland.

Capital stock, \$1,250,000.
 President, E. Strong.
 Gen'l mgr., M. B. Daly.
 Sec'y and treas., H. V. Shulters.
 Superintendent, W. W. Richardson.
 Price gas, gross, domestic, 30c. per 1,000.
 Cities supplied: Cleveland, Canton, Akron,
 Dennison, Massillon, New Philadelphia,
 Uhrichsville, Canal Dover.

Central Ohio Natural Gas and Fuel Co., Columbus.

Capital stock, \$2,435,000.
 President, John G. Deshler.
 Mgr. and pur. agent, J. O. Johnston.
 Wells drawn from, 74. Miles pipe line, 279.
 No. domestic consumers, 21,360.
 Price gas, gross, per 1,000 c. f., domestic, and
 industrial, 30c.
 Value of gas supplied, 1903, \$659,967.87.
 Cities supplied: Columbus, Thurston, Basil,
 Baltimore and Pleasantville.

Federal Gas and Fuel Co., Columbus.

(Reported as sold to Ohio Fuel Supply Co.)
 Supplies: Columbus, Logan and Canal Win-
 chester.

Dayton Gas and Fuel Co., Dayton.
 (No report.)

Miami Valley Gas and Fuel Co., Dayton.
 (No report.)

Delaware Gas Co., Delaware.

Capital stock, \$120,000.
 President, A. Lybrand.
 Manager and secretary, T. C. Jones.
 Treasurer, Delaware County National Bank.
 Purchasing agent, T. C. Jones.
 Superintendent, T. C. Jones.
 (Purchase natural gas from the Union
 Natural Gas Corporation.)
 Pop. dist. supplied, 9,000. No. domestic con-
 sumers, 1,050.
 Miles of mains, approximate, 11.5.
 Price gas, 1903: dom., 25c.; industrial, 12c.

Ohio Valley Gas Co., East Liverpool.

(Principal office, Farmers Bank Bldg., Pitts-
 burg, Pa.)
 Capital stock, \$750,000.
 President, H. B. Beatty.
 Manager A. B. Dally, Jr.
 Purchasing agent, F. C. Leslie.
 Cities supplied: East Liverpool and Wells-
 ville, O., and Chester, W. Va.

Citizens Gas and Electric Co., Elyria.

Capital stock, \$600,000.
 Bonds, \$400,000.
 President, J. C. McDowell.
 Treasurer, E. P. Whitcomb.
 Superintendent and sec'y., T. L. Schrantz.
 Miles of pipe line, 20. No. meters, 1,400.
 Price gas per 1,000 c. f., gross 27.5c.; net 25c.
 Supplies Elyria and Lorain.

Citizens Gas Light and Coke Co., Findlay.

Capital stock, \$300,000.
 Bonds, \$172,000; due 1920; interest, 5 p. c.
 President, J. M. Barr.
 Sec'y and treas., W. V. Coons.
 Manager, J. M. Barr.
 Wells drawn from, 120. Miles pipe line, 149.
 No. domestic consumers, 2,800.
 Price gas, gross, per 1,000 c. f., domestic, 30c.
 Value of gas supplied, 1903, approx., \$70,000.
 City supplied, Findlay.

Forest Gas and Oil Co., Forest.

Capital stock, \$60,000.
 Sec'y and treas., A. G. Merriman.
 Manager, Frank C. Dougherty.
 Wells drawn from, 4. Miles pipe line, 10.
 No. domestic consumers, 250.
 Price gas, gross, domestic, flat rate, per year,
 heaters, \$15; for cooking purposes, \$21.
 Value of gas supplied, 1903, approx., \$7,000.
 City supplied, Forest.

Fremont Gas, Electric Light and Power Co., Fremont.

President, J. C. McDowell.
 Pop. dist. supplied, 9,700. No. meters, 1,483.
 Miles of mains, approximate, 28.
 Price gas, 1903: Gross, per 1,000 c. f., 27.5c.
 Annual output, approx., 125,000,000 c. f.

Granville Natural Gas, Fuel and Light Co., Granville.

Office, Zanesville.
 Capital stock, \$50,000.
 Bonds, \$50,000; due 1912; interest, 6 p. c.
 President, S. M. Winn.
 Manager, J. B. Owens.
 Purchasing agent, J. B. Owens.
 (Pipe line not completed at time report was
 made.)

Hopedale Gas Co., Hopedale.

(Office Cadiz.)
 Capital stock, \$25,000.
 President, R. P. Scott.
 Manager, R. Cunningham.
 Purchasing agent, R. Cunningham.
 Wells drawn from, 3.
 No. domestic consumers, 75.
 Price gas, gross, domestic, 18c.

"The metropolitan appearance of the lamp itself, together with the clear, white, steady, powerful light, put the **Welsbach** clear in the lead of anything on the market to-day for the purpose of street lighting."

(Signed) W. W. BINGHAM, President, City Council, Omaha.

See advertisement, page xx.

Value of gas supplied, 1903, approx., \$3,000.
Supplies Hopedale.

Jefferson Oil and Gas Co., Jefferson.

(No report.)

F. N. Donaldson, Jewett.

Owner, F. N. Donaldson.
Manager, F. N. Donaldson.
Purchasing agent, W. E. Woods.
Wells drawn from, 6. Miles pipe line, 25.
No. domestic consumers, 525.
Price gas, gross, per 1,000 c. f., domestic, 20c.,
industrial, 10c.
Value of gas supplied, 1902, approx., \$5,775.
Cities supplied: All of Jewett, part of Scio
and Cadiz.

Kenton Gas and Electric Co., Kenton.

Capital stock, \$200,000.
Bonds, \$30,000; due 1910; int., 6 p. c.
President, Samuel Lee.
Manager, E. W. Plaisted.
Purchasing agent, E. W. Plaisted.
Wells drawn from, 5. Miles pipe line, 45.
No. domestic consumers, 500.
Price gas, gross, per 1,000 c. f., domestic and
industrial, 25c.
Value of gas supplied, 1903, approx., \$20,000.
Supplies, Kenton.

City Natural Gas Works, Lancaster.

(Owned and operated by city of Lancaster.)
President, Henry Senna.
Superintendent, G. W. Trimble.
Purchasing agent, G. W. Trimble.
Wells drawn from, 26. Miles pipe line, 59.
No. domestic consumers, 3,600.
Price gas, per 1,000 c. f., gross, domestic, 10c.;
industrial, 8c.
Value of gas supplied, 1903, approx., \$118,000.
City supplied, Lancaster.

Logan Natural Gas and Fuel Co., Lancaster.

President, S. A. Wheeler.
Manager, P. W. Lupher.
Purchasing agent, P. W. Lupher.
Wells drawn from, 75. Miles pipe line, 500.
Cities supplied: Chillicothe, Newark, Athens,
Mt. Vernon, Logan, Nelsonville, Utica,
Adelphi, Kingston and Thornville.

Ohio and Indiana Consolidated Natural and Illuminating Gas Co., Lima.

(Supplies gas to Wapakoneta Natural Gas Co.,
St. Mary's Gas Co., Celina Gas Co., Lima
Natural Gas Co. and North Monroe Nat-
ural Gas Co.)

Capital stock, \$10,000,000.
President, C. F. Dieterich.
Treasurer, A. B. Proal.
Sec'y and gen'l mgr., S. T. Murdock.
Gen. supt., J. D. S. Neely.
Purchasing agent, S. E. Mulholland.
Price gas, net, 25c. per 1,000 c. f.
Cities supplied: Wapakoneta, Lima, St.
Mary's, Celina, Greenville, Ft. Recovery,
Ansonia, Ohio and Red Key, Ind.

Home Fuel Co., Malta.

Capital stock, \$10,000.
President, F. B. Manly.
Mgr. and pur. agent, C. E. Smith.
Wells drawn from, 1. Miles of pipe line, 14.
Price gas, gross, domestic, 18c. per 1,000 c. f.
No. domestic consumers, 200.
Value of gas supplied, 1903, approx., \$4,000.
Cities supplied: Malta and Pennsville.

Malta Natural Gas Line, Malta.

Capital stock, \$100,000.
Owner, S. R. Dresser.
Manager, H. C. Hopp.
Purchasing agent, S. R. Dresser.
Wells drawn from, 24. Miles pipe line, 14.
No. domestic consumers, 900.
Price gas, gross, per 1,000 c. f., domestic, 18c.
Value of gas sup., 1903, approx., \$18,398.70.
Cities supplied: Malta and McConnellsville.

Marietta Consolidated Gas Co., Marietta.

Capital stock, \$300,000.
President, H. A. Jamison.
Manager, A. A. Schnauffer.
Pur. agents, A. A. Schnauffer and W. J. Cram.
Wells drawn from, 16. Miles pipe line, 35.
No. domestic consumers, 1,100.
Price gas, gross, per 1,000 c. f., domestic, 20c.;
industrial, 10c.
Value of gas supplied, 1903, approx., \$50,000.
City supplied, Marietta.

River Gas Co., Marietta.

(No report.)

Marion Gas Co., Marion.

(Sold to Logan Natural Gas and Fuel Co.)
President, S. A. Wheeler.
Manager, P. W. Lupher.
Supplies Marion.

Homer Natural Gas Co., Mt. Vernon.

Capital stock, \$250,000.
President, J. B. Waight.
Manager and pur. agt., F. O. Lovering.
Wells drawn from, 14. Miles pipe line, 15.

Mt. Vernon Gas Light Co., Mt. Vernon.

Capital stock, \$50,000.
Bonds, \$30,000; due 1923; interest, 6 p. c.
President, J. S. Kingwalt.
General manager, Ben. Ames.
Miles of pipe line, 25.
Price gas per store per month, net \$2.
Supplies Mt. Vernon.

Ohio Fuel Supply Co., Mount Vernon.

Office, 705, Bank for Savings, Pittsburg, Pa.

Newark Natural Gas Co., Newark.

(No report.)

New Bremen Natural Gas Co., New Bremen.

(No report.)

Owing to the shape of the Welsbach Mantle, the illumination of the street from an IMPROVED **Welsbach** STREET LIGHT is equal in every direction. This is not the case with other methods of lighting. See advertisement, page xx.

Oak Harbor Gas Co., Oak Harbor.

Capital stock, \$50,000.
 President, Wm. H. Murphy.
 Mgr. and pur. agent, Wm. H. Murphy.
 Wells drawn from 3. Miles pipe line, 10.
 Price gas, gross, domestic, 30c. per 1,000 c. f.

Oak Harbor Natural Gas Co., Oak Harbor.

Capital stock, \$16,000.
 President, E. J. Thierwachter.
 Sec'y and mgr., R. M. Harrison.
 Wells drawn from, 7; miles pipe line, 5.5
 No. domestic consumers, 125.
 Price gas, gross, per 1,000 c. f., domestic, 35c.
 Value of gas supplied, 1903, approx., \$2,750.

Natural Gas Co., Piqua.

Secretary, E. W. Hanley, Dayton.
 Agent, F. C. Davies.

Whitten and Barringer, Rockyridge.

Wells drawn from, 1. Pipe line, 250 rods.
 No. domestic consumers, 8.
 Price gas per month, one stove, \$1.50.
 Value of gas supplied, 1903, approx., \$150.
 Supplies part of Rockyridge.

Joseph Kingham Gas Plant, Rockyridge.

Wells drawn from, 3. Miles pipe line, 2.5.
 Value of gas supplied, 1903, approx., \$570.

Scio Gas Co., Scio.

Capital stock, \$32,000; pref., \$8,000.
 Bonds, \$10,000; due 1904; interest, 6 p. c.
 President and pur. agent, W. J. Cook.
 Manager, F. J. Catlin.
 Wells drawn from, 7; miles pipe line, 10.
 No. domestic consumers, 300.
 Price gas, gross, per 1,000 c. f., domestic, 22c.;
 industrial, 15c.
 Value of gas supplied, 1903, approx., \$9,000.
 City supplied, Scio.

Springfield Gas Co., Springfield.

President, F. E. Randall.
 Secy. and treas., E. W. Hanley.
 Gen'l superintendent, D. S. Neely.
 Superintendent, E. D. Abbott.
 No. consumers, 3,553.
 Price gas, per 1,000 c. f., domestic, 25c.
 Supplies Springfield.

Central Transit and Finance, Sugar Grove.

(No report.)

Interstate Gas Co., Toledo.

Capital stock, \$150,000.
 Bonds, \$100,000; due, 1920; int., 6 per cent.
 President, A. G. Kerlin.

Secretary, J. M. Kerlin.

Manager, Thomas Flock.

Purchasing agent, E. W. Kerlin.

Wells drawn from, 50; miles pipe line, 30.

No. domestic consumers, 520.

Price gas, gross, per 1,000 c. f., domestic, 25c.;
 industrial, 15c.

Value of gas supplied, 1903, approx., \$20,000.

Cities supplied: New Bremen and Minster.

Northwestern Ohio Natural Gas Co., Toledo.

Capital stock, \$3,300,000.

President, Dan'l O'Day, N. Y.

General manager, M. B. Daly.

General Superintendent, J. W. McMahon.

No. domestic consumers, 12,000.

Price gas, gross, per 1,000 c. f., domestic, 32c.

Cities supplied: Toledo, Perrysburg and
 Maumee.

Central Gas Co., Urbana.

(No report.)

L. W. Haskins Gas Co., Waterville.

President, L. W. Haskins.

Manager, L. W. Haskins.

Miles of pipe line, 1.

Price gas, gross, domestic, 30c. per 1,000.

Value gas supplied, 1903, \$300.

No. domestic consumers, 15.

Waterville Gas and Oil Co., Waterville.

Capital stock, \$15,500.

President, D. R. Austin.

Manager, W. P. Hoobler.

Purchasing agent, C. E. Sutton.

Wells drawn from, 9; miles pipe line, 10.

No. domestic consumers, 211.

Price gas, gross, per 1,000 c. f., domestic, 35c.

Value of gas supplied, 1903, approx., \$3,009.

City supplied, part of Waterville.

Barnesdale and Longfellow Bros., Woodsfield.

(No report.)

Central Gas Co., Woodsfield.

Manager, J. E. Keegan.

Supplies Woodsfield, Beallesville, Malaga and
 Ozark.

Mahoning Gas and Fuel Co., Youngstown.

(No report.)

Youngstown Gas and Electric Co., Youngstown.

(No report.)

Great Southern Gas Co., Zanesville.

(No report.)

PENNSYLVANIA.**Belle Vernon Light and Heat Co., Belle Vernon.**

Capital stock, \$69,000.
 President, S. F. Jones.
 Manager, S. F. Jones.
 No. wells drawn from, 30. Miles pipe line, 10.

Price gas, gross, domestic 20c.; industrial 10c.

Value gas supplied; \$87,000.

No. domestic consumers, 3,500.

Bellevue and Homestead Oil and Gas Co., Bellevue.

(No report.)

THE **Welsbach** STREET LIGHT is a pure white light, unaffected by change of temperature, winds, or other natural disturbances. See advertisement, page xx.

Bradford Gas Co., Bradford, Pa.

(Mutual company.)

Capital stock, \$300,000.

President and pur. agent, Lewis Emery, Jr.

Manager, Earl C. Emery.

Wells drawn from 8. Miles pipe line, 45.

Price gas, industrial, 10c.

Value of gas supplied, 1903, \$48,541.50.

Commercial Natural Gas Co., Bradford.

(No report.)

Hoffman Natural Gas Co., Bradford.

Capital stock, \$20,000.

President, R. J. Hoffman.

Manager H. L. Stoner.

Purchasing agent, H. L. Stoner.

Wells drawn from, 9. Miles pipe line, 10.

Price gas, gross, industrial 10c.

Manufacturers Gas Co., Bradford.

Capital stock, \$350,000.

President, T. N. Barnsdall.

Manager, Wm. Barnsdall, Jr.

Purchasing agent, Wm. Barnsdall, Jr.

No. domestic consumers, 2,398.

Price gas, gross, per 1,000 c. f., domestic, 27c.;

industrial, 12c., 14c., 16c., 17c., 19c.

Cities supplied: Bradford and vicinity, Pa., and Limestone, N. Y.

Northeastern Oil and Gas Co., Bradford.

Capital stock, \$300,000.

President, Wm. Barnsdall, Jr.

Manager, A. A. Crawford.

Sec'y and treas., E. P. Whitcomb.

Pur. agent., E. P. Whitcomb.

Wells drawn from, 10. Miles pipe line, 31.

Price gas, gross, domestic, per 1,000 c. f., 25c.;

industrial, 15c.

Cities supplied: Ashtabula, Jefferson, Conneaut and Grena, O.

United Natural Gas Co., Bradford.

General office, 26 Broadway, N. Y.

(No report.)

Evans City Natural Gas Co., Butler.

Capital stock, \$10,000.

President, J. S. Campbell.

Manager, J. F. Anderson.

Asst. manager, E. H. Cronenwett.

Wells drawn from, 7.

No. domestic consumers, 300.

Price gas, gross, per 1,000 c. f., domestic, 20c.;

industrial, 15c.

Cities supplied: Evans City and Callery.

Home Natural Gas Co., Butler.

Capital stock, \$100,000.

Bonds, \$90,000; due 1905; interest, 6 p. c.

President, J. S. Campbell.

Sec'y and mgr., J. F. Anderson.

Purchasing agent, J. F. Anderson.

Wells drawn from, 45. Miles pipe line, 65.

No. domestic consumers, 2,500.

Price gas, gross, per 1,000 c. f., domestic, 20c.;

industrial, 0.125c.

Value of gas supplied, 1903, approx., \$65,000.

City supplied, Butler.

Independent Natural Gas Co., Butler.

Office, 117 E. Jefferson Street.

Capital stock, \$10,000.

President, Henry Reiber.

Manager, Edward Reiber.

Wells drawn from, 28. Miles pipe line, 65.

Price gas, gross, domestic, 22c.

Value gas supplied, 1903, \$35,000.

City supplied, Butler.

Patterson Natural Gas Co., Butler.

Capital stock, \$50,000.

President, J. F. Anderson.

Manager, J. F. Anderson.

Asst. mgr., E. H. Cronenwett.

Wells drawn from, 13.

No. domestic consumers, 447.

Price gas, gross, per 1,000 c. f., domestic, 25c.;

industrial, 20c.

Cities supplied: Zelienople and Harmony.

Phillips Gas Co., Butler.

Capital stock, \$200,000.

Bonds, \$100,000.

President, Clarence Walker.

Sec'y and mgr., T. W. Phillips, Jr.

Wells drawn from, 140. Miles pipe line, 230.

No. domestic consumers, 400.

Price gas, gross, per 1,000 c. f., domestic, 22c

to 27c.; industrial, 8c. to 13c.

Value of gas supplied, 1903, approx., \$275,000.

Cannonsburg Light and Fuel Co., Cannonsburg.

(No report.)

Godfrey L. Cabot, Carbonblack.

General office, 82 Water street, Boston, Mass.

Owner, G. L. Cabot.

Wells drawn from, 65. Miles pipe line, 65.

Price gas, gross, per 1,000 c. f., domestic, 10c.;

industrial, 6.5c.

Value of gas supplied, 1903, approx., \$4,000

sold, \$100,000 used.

Villages supplied, Saxonburg, Herman, West

Winfield, Worthington and Craigsville,

Pa.; Grantsville, W. Va.

Citizens Light and Fuel Co., Chicora.

Capital stock, \$10,000.

President, Augustus Hock.

Secretary, J. C. Gaisford.

Wells drawn from, 13. Miles pipe line, 55.

No. domestic consumers, 450.

Price gas, gross, per 1,000 c. f., domestic and

industrial, 20c.

Value of gas supplied, 1903, approx., \$12,000.

Cities supplied: Chicora Prospect, Boydstown and Portersville.

Troutman Oil and Gas Co., Chicora.

Manager, C. E. L. Hatch.

Supplies Middletown, Troutman and Buena

Vista.

Hock Brothers Natural Gas Co., Chicora.

Supplies Homer, Bolivar and Sugar Creek.

THE **Welsbach** STREET LIGHT gives the highest candle power of light for the least money. See advertisement, page xx.

Clarion Gas Co., Clarion.

Capital stock, \$125,000.
 Bonds, \$18,000; \$5,000 due annually; interest 5 p. c.
 President, T. C. Hulings.
 Manager, T. C. Hulings.
 Wells drawn from, 24. Miles pipe line, 71.
 No. domestic consumers, 765.
 Price gas, gross, per 1,000 c. f., domestic, 16½c.; industrial, 10c.
 Value of gas supplied, 1903, \$23,679.
 Cities supplied: Clarion Corsica and Summerville.

Rattlesnake Gas Co., Cortwright.
(No report.)**Citizens Gas Co., Coudersport.**

Manager, A. A. Mulkin.
 Supplies Potter Brook, West Bingham, Lawrenceville, Mills, Knoxville, Austin, Costello, Nelson, Harrison Valley, Ulysses, Roulette, Genesee, Oswayo, Elkland, Osceola, Cowanesque, Mina, Elmer, Hickox, Andrews' Settlement, Academy Corners, West Pike, Odin and Coudersport, Pa., Elmira and Addison, N. Y.

Consumers Gas Co., Coudersport.

Capital stock, \$150,000.
 Bonds, \$52,500; due 1904-9; interest, 6 p. c.
 President, John F. Stone.
 Secretary and treasurer, John B. Coulston.
 Wells drawn from, 17. Miles pipe line, 60.
 No. domestic consumers, 600.
 Price gas, gross, per 1,000 c. f., domestic, 20c.; industrial, 10c.
 Value gas supplied, 1903, approx., \$40,000.
 Supplies Austin, Roulette and Costello.

Potter Gas Co., Coudersport.

Capital stock, \$1,100,000.
 Bonds, \$700,000; due 1905, 1911; int., 6 p. c.
 President, T. N. Barnsdale.
 Superintendent, A. A. Mulkin.
 Wells drawn from, 82. Miles pipe line, 150.
 No. domestic consumers, 3,000.
 Price gas, gross, per 1,000 c. f., domestic, 27c.; industrial, 10c.
 Value of gas supplied, 1903, approx., \$100,000.
 Cities supplied: Coudersport, Knoxville, Westfield, Potter Brook, Harrison Valley, Mills, Ulysses, Galetton, Genesee, Oswayo, Mina, Austin, Roulette, Nelson and Lawrenceville, Pa., Addison and Elmira, N. Y.

Eldred Gas Co., Eldred.

Capital stock, \$20,000.
 President, V. Perry Carter.
 Pur. agt. and manager, V. Zahniser.
 Secretary, E. C. Bradley.
 Treasurer, J. B. Bradley.
 Wells drawn from, 14. Miles pipe line, 20.
 No. domestic consumers, 300.
 Price gas, gross, per 1,000 c. f., domestic, 22c.
 Value of gas supplied, 1903, \$9,759.
 Cities supplied: part of Eldred and Duke Center.

Home Gas Co. of Eldred, Eldred.

Capital stock, \$20,000.
 President, A. D. Gould.
 Pur. agt. and manager, E. A. Barden.
 Wells drawn from, 18. Miles pipe line, 15.
 No. domestic consumers, 300.
 Price gas, net, per 1,000 c. f., domestic, 20c.; industrial, 8c.
 Value gas supplied, 1903, \$20,000.
 Cities supplied: Eldred and Larabee.

Emlenton Gas Light and Fuel Co., Emlenton.

Capital stock, \$200,000.
 President, J. W. Rowland.
 Secretary and treasurer, H. J. Crawford.
 Manager, T. B. Gregory.
 Purchasing agent, T. B. Gregory.
 Wells drawn from, 60. Miles pipe line, 200.
 No. domestic consumers, 1,500.
 Price gas, gross, per 1,000 c. f., domestic, 22c.; industrial, 7c. and 8c.
 Value of gas supplied, 1903, approx., \$65,000.
 Towns supplied: Emlenton, Parker, Foxburg, St. Petersburg, Monterey, Clintonville, Bruin, Baldwin, North Hope and vicinity.

Fairmount and Oak Ridge Gas Co., Fairmount City.

(Purchased by Pennsylvania Fuel Supply Co.; data below for 1902.)

Capital stock, \$50,000.
 Wells drawn from, 7. Miles pipe line, 20.
 No. domestic consumers, 300.
 Price gas, domestic, per mo. \$1.50; 1,000 c. f. 13.5c.
 Value of gas supplied, 1903, approx., \$16,900.
 Cities supplied: Fairmount City, Oak Ridge, Hawthorn, Perce.

Franklin Natural Gas Co., Franklin.

Capital stock, \$242,000.
 President, J. W. Grant.
 Manager, C. J. Crawford.
 Miles pipe line, about 30.
 No. domestic consumers, 3,000.
 Price gas, gross, per 1,000 c. f., domestic, 27c.
 (Gas purchased from Oil City Fuel Supply Co., Oil City, Pa.)
 Cities supplied, Franklin and vicinity.

Union Heat and Light Co., Franklin.

Capital stock, \$30,000.
 President, E. W. Snook.
 Treasurer, O. D. Bleakley.
 Manager, John P. Barr.
 Purchasing agent, John P. Barr.
 Wells drawn from, 25. Miles pipe line, 60.
 No. domestic consumers, 750.
 Price gas, gross, per 1,000 c. f., domestic, 22c.; industrial, 18c.
 Value of gas supplied, 1903, approx., \$19,580.
 Cities supplied: Grove City and Harrisville.

Cumberland Gas Co., Freeport.

(Sells to the Philadelphia Co. by meter.)
 Manager, Beynard Way.
 Wells drawn from, 9.

THE **Welsbach** SYSTEM distributes the light over all portions of the area illuminated. See advertisement, page xx.

Enterprise Natural Gas Co., Freeport.

Capital stock, \$50,000.
 President, D. A. Cunningham.
 Manager, Scott Haines.
 Secretary and treasurer, N. L. Van Dyke.
 Purchasing agent, N. L. Van Dyke.
 Wells drawn from, 14. Miles pipe line, 15.5.
 No. domestic consumers, 600.
 Price gas, gross, per 1,000 c. f., domestic, 20c.; discount, 25 p. c.; industrial, 10c.
 Value of gas supplied, 1903, approx., \$24,100.
 Cities supplied: Freeport, Meenerville, Laneville and Tuckertown.

Girard Gas Co., Girard.

(No report.)

Elk Pipe Line Co., Glen Hazel.

Capital stock, \$15,000.
 President, F. E. Clawson.
 Manager, F. E. Clawson.
 Purchasing agent, F. E. Clawson.
 Wells drawn from, 20 to 25. Miles pipe line, 10.
 No. domestic consumers, 40.
 Price gas, gross, per 1,000 c. f., domestic, 15c. to 20c.; industrial, 10c.
 Value of gas supplied, 1903, approx., \$20,000.
 Cities supplied: Straight and part Glen Hazel.

Glen Hazel Gas Co., Glen Hazel.

(No report.)

Glenshaw Natural Gas Co., Glenshaw.

Capital stock, \$2,000.
 President, John Brown.
 Manager, F. B. McMillan.
 Purchasing agent, F. B. McMillan.
 Wells drawn from, 40. Miles pipe line, 4.
 No. domestic consumers, 115.
 Price gas, gross, per 1,000 c. f., domestic, 25c.
 Value of gas supplied, 1903, approx., \$3,800.

Greensboro Natural Gas Co., Greensboro.

(No report.)

Patterson Natural Gas Co., Harmony.

(No report.)

Hazelhurst Gas Co., Hazelhurst.

(No report.)

Valley Gas Co., Hazelhurst.

(Main office, Warren, Pa.)
 Capital stock, \$75,000.
 President, H. M. Preston.
 Manager, F. M. Knapp.
 Purchasing agent, F. M. Knapp.
 Wells drawn from, 14. Miles pipe line, 5.
 Price gas, gross, 8c.
 Value of gas supplied, 1903, approx., \$1,989.
 Supplies Hazelhurst.

Hyde Park Natural Gas Co., Hyde Park.

Capital stock, \$25,000.
 President, J. D. Orr.
 Sec'y and treas., J. D. Orr.
 Superintendent, Robert Stutchel.
 Purchasing agent, J. D. Orr.
 No. domestic consumers, 1,000.

Price gas, gross, per 1,000 c. f., domestic, 10c.; industrial, 8c.

Annual output, approx., 400,000,000 c. f.

Indiana County Gas Co., Indiana.

Capital stock, \$200,000.
 Bonds, \$6,200; int., 6 p. c.
 President, Harry W. Wilson.
 Managers, Wilson and Clements.
 Treas. and pur. agt., Jos. W. Clements.
 Wells drawn from, 30. Miles of pipe line, 26.
 No. domestic consumers, 1,100.
 Price gas, gross, dom., 20c.; industr'l 10c. and 12.5c.
 Value of gas supplied, 1903, approx., \$60,000.
 Cities supplied: Indiana and Homer.

Consumers Gas and Heat Co., Johnsonburg.

President, M. M. Armstrong.
 Manager, J. A. Craig.
 Price of gas domestic, 20c.
 Cities supplied: Johnsonburg and Rolfe.

Citizens Gas Co., Kane.

(No report.)

Kane Gas Light and Heating Co., Kane.

Capital stock, \$10,000.
 President, Elisha K. Kane.
 Secretary, Thomas L. Kane.
 Wells drawn from, 14. Miles pipe line, 15.
 No. domestic consumers, 650.
 Price gas, per 1,000 c. f., 15c.
 Supplies Kane.

Garret's Run Gas Co., Kittanning.

Capital stock, \$40,000.
 Bonds, \$25,000; due, 1906; int., 6 p. c.
 President, Dr. T. M. Allison.
 Manager, Lambert Kron.
 Purchasing agent, Lambert Kron.
 Wells drawn from, 7. Miles pipe line, 10.
 No. domestic consumers, 425.
 Price gas, gross, per 1,000 c. f., domestic, 17c.; industrial, 13c.
 Supplies Kittanning.

Kittanning Consolidated Natural Gas Co., Kittanning.

(General office, Buffalo, N. Y.)
 Manager, H. V. Thomas.
 Superintendent, M. L. Campbell.
 Wells drawn from, 60. Miles pipe line, 80.
 Cities supplied: Kittanning, Ford City, Manorville, McCain, Pattonville, Yatesboro, Rural Valley, Fordview, Ford Cliff, Wick City, Rosston, Brickerville.

Manufacturers Gas Co., Kittanning.

Receiver, R. A. McCullough.
 Supplies Kittanning and Pittsburg Co's.

Knox Oil and Gas Co., Knox.

(No report.)

Mt. Jewett Gas Co., Kushequa.

President, T. L. Kane.
 Manager, G. V. Thompson.
 Pur. agt., E. K. Kane and G. V. Thompson.
 Wells drawn from, 70. Miles pipe line, 50.

THE WELSBACH SYSTEM OF STREET LIGHTING is employed in the following cities: New York City, Philadelphia, Pa., Freehold, N.J., East Orange, N.J., New Haven, Conn., Brookline, Mass., Cambridge, Mass., New Rochelle, N.Y., Omaha, Neb., Springfield, O., Boston, Mass., New Bedford, Mass., Bridgeport, Conn., Dayton, O., Pensacola, Fla., St. Louis, Mo., Providence, R.I., San Francisco, Cal., Yonkers, N.Y., Milwaukee, Wis., Portland, Me., and various other cities. See Advertisement, page xx.

No. domestic consumers, 375.
Price gas, gross, per 1,000 c. f., domestic, 18c.;
per month, stoves, \$3.50,
Value gas supplied, 1903, \$15,000.
Cities supplied: Mt. Jewett, Kushequa,
and Lantz.

United Natural Gas Co., Kushequa.

Manager, George V. Thompson.
Supplies Mt. Jewett and Kushequa.

Armstrong Gas Co., Leechburg.

(No report.)

Gilpin Natural Gas Co., Leechburg.

Capital stock, \$4,000.
President, L. N. Bush.
Manager, John W. Crosby.
Purchasing agent, Emery Klingensmith.
Wells drawn from, 2. Miles pipe line, 2.
Price gas, per 1,000 c. f., 10c.

Leechburg Light and Fuel Co., Leechburg.

(Sold Oct. 1, 1902, to American Natural Gas
Co., Pittsburg.)
Capital stock, \$20,000.
President, Jos. G. Beale.
Manager, J. P. Klingensmith.
Sec'y and supt., J. P. Klingensmith.
Wells drawn from, 9. Miles pipe line, 11.
No. domestic consumers, 400.
Price gas, gross, per 1,000 c. f., domestic, 25c.
Value of gas supplied, 1903, approx., \$13,000.
City supplied, Leechburg.

Milesgrove Gas Co., Ltd., Milesgrove.

Capital stock, \$10,000.
President, A. Denio.
Secretary, M. B. Timis.
Wells drawn from, 6; miles pipe line, 6.
No. domestic consumers, 75.
Price gas, gross, per 1,000 c. f., domestic, 30c.
Value gas supplied, 1903, \$2,500.
City supplied, Milesgrove.

Monongahela City Gas Co., Monongahela.

Capital stock, \$30,000.
President, R. R. Abrams.
Secretary, Jos. A. Herron.
Treasurer, J. B. Finley.
Purchasing agent, J. B. Finley.
Superintendent, L. M. Bowman.
Pop. dist. supplied, 6,000. No. meters, 30.
Miles of mains, approximate, 5.
Price gas, 1903: 25c.
No. public lamps, 117.

Bellwood and Monongahela Natural Gas Co., Monongahela City.

Secretary, Theo. M. Byerd.
Supplies Monongahela.

West Monongahela Natural Gas Co., Monongahela City.

Treasurer, Theo. M. Byerd.
Supplies Monongahela and W. Monongahela.

Clover Leaf Gas Co., Mosgrove.

(Office Kittanning.)
Capital stock, \$5,000.
President, Jno. H. Rebold.
Manager, Jno. H. Rebold.
Pur. agt. and secy., James T. Heilman.
Wells drawn from, 6. Miles pipe line, 6.
No. domestic consumers, 75.
Price gas, gross, domestic, per 1,000 c. f., 15c.;
industrial, 10c.
Value of gas supplied, 1903, approx., \$5,000.
City supplied, Mosgrove.

Boyd Fuel Co., Mt. Jewett.

Capital stock, \$1,500.
President, G. H. Boyd.
Purchasing agent, W. B. Heck.
Wells drawn from, 10. Miles pipe line, 10.
Price gas, gross, industrial 8c.
Supplies Boyd Glass Co. factory.

Brewer Gas Co., Mt. Jewett.

Capital stock, \$10,000.
President, Chas. Luhr.
Manager, P. Dixon.
Purchasing agent, P. Dixon.
Wells drawn from, 2. Miles pipe line, 10.
No. domestic consumers, 150.
Price gas gross, domestic, 18c.
Value of gas supplied, 1903, approx., \$6,000.
Supplies, Mt. Jewett.

Pennsylvania Fuel Supply Co., New Bethlehem.

Capital stock, \$1,000,000.
President, C. E. Crawford.
Manager, H. J. Crawford.
Purchasing agent, H. C. Reeser.
Wells drawn from, 10. Miles pipe line, 40.
No. domestic consumers, 400.
Price gas, gross, domestic, 20c. per 1,000.
Value of gas supplied, 1902, approx., \$10,000.
Supplies New Bethlehem and So. Bethlehem.

American Window Glass Co., New Kensington.

(No report.)

Red Bank Natural Gas Co., Oak Ridge.

(Purchased by Pennsylvania Fuel Supply
Co. Data below for 1902.)
Capital stock, \$50,000.
Wells drawn from, 5. Miles pipe line, 35.
No. domestic consumers, 300.
Price gas, gross, per month, domestic, \$1.50;
industrial, per 1,000 c. f., 6c., 7c. and 8c.
Value of gas supplied, 1903, approx., \$5,000.
Towns supplied: New Maysville, Hawthorne,
Oak Ridge, Fairmount, New Bethlehem,
South Bethlehem and Oak Land.

Hope Natural Gas Co., Oil City.

(No report.)

Oil City Fuel Supply Co., Oil City.

Cities supplied: Titusville, Sharon, Oil City,
Meadville, Franklin, Du Bois, Brookville,
Reynoldsville and other small towns.

THE INCREASED CANDLE POWER of the Improved **Welsbach** Street Light is all utilized because it is distributed horizontally and below the horizontal plane in every direction. See advertisement, page xx.

American Natural Gas Co., Pittsburg.

Office, 1309 Park Building.
 Capital stock, \$780,000.
 President, X. Wittmer.
 Manager, H. Wittmer.
 Wells drawn from, 190. Miles pipe line, 160.
 Price gas, gross, per 1,000 c. f., domestic, 25c;
 industrial, 10c.

Carnegie Natural Gas Co., Pittsburg.

(No report.)

Citizens Light and Heat Co. of West Middletown, Pittsburg.

Office, Times building.
 Capital stock, \$3,000.
 President, H. B. Beatty.
 Manager, A. B. Dally, Jr.
 Purchasing agent, F. A. Leslie.
 Cities supplied: Borough of West Middle-
 town, Washington County, Pa.
 (Natural gas purchased from the Wheeling
 Natural Gas Co.)

Citizens Natural Gas Co. of Beaver County, Pittsburg.

Office, Farmers Bank Building, Fifth Ave.
 Capital stock, \$100,000.
 President, H. B. Beatty.
 Secretary, H. E. Seibert.
 Miles pipe line, 14.25.
 No. domestic consumers, 400.
 Price gas, gross, per 1,000 c. f., domestic, 30c.;
 net 25c.; industrial, 15c. net.
 Boroughs supplied: Fallston, New Brighton
 and Beaver Falls.

Conemaugh Gas Co., Pittsburg.

Office, 708 Penn Avenue.
 Capital stock, \$300,000.
 President, Rufus B. Stone.
 Manager, J. Watson Stuart.
 Purchasing agent, J. Watson Stuart.
 Wells drawn from, 24. Miles pipe line, 70.
 Value gas supplied, 1903, \$40,000.
 No. domestic consumers, 1,100.
 Price gas, gross, per 1,000 c. f., domestic, 25c.;
 industrial, average 15c.
 Towns supplied: Avonmore, Saltsburg, Liver-
 more and Blairsville.

Equitable Gas Co., Pittsburg.

Capital stock, com. \$700,000; pref. \$300,000.
 President, Jas. H. Reed.
 General manager, Jos. F. Guffey.
 Purchasing agent, Matthew Bigger.
 Auditor, C. S. Mitchell.
 Miles pipe line, 83.64.
 No. domestic consumers, 1,554.
 Price gas, gross, per 1,000 c. f., domestic, 27c.;
 industrial, 15c.
 Value of gas supplied, 1903, approx., \$300,000.
 Supplies a portion of the city of Pittsburg.

Fairmount and Grafton Gas Co., Pittsburg.

Office, 331 Fourth Avenue.
 Capital stock, \$300,000.
 President, Jos. W. Craig.
 Manager, A. L. Lowrie.
 Secretary, C. W. Baker.

Fort Pitt Gas Co., Pittsburg.

(Merged with Manufacturers Light and
 Heat Co., Pittsburg.)

Greensboro Natural Gas Co., Pittsburg.

(No report.)

Jeannette Gas Co., Pittsburg.

Office, 331 Fourth Avenue.
 Capital stock, \$100,000.
 President, Jos. W. Craig.
 General manager, Geo. L. Craig.
 Price gas, gross, per 1,000 c. f., domestic, 25c.;
 industrial, 10c.
 Cities supplied: Jeannette, Penn and Irwin.

Jefferson Gas Co., Pittsburg.

Office, Farmers Bank Building.
 Capital stock, \$100,000.
 President, H. B. Beatty.
 Secretary, H. E. Seibert.
 Treasurer, E. H. Myers.
 City supplied, Pittsburg.

Keystone Gas Co., Pittsburg.

(See Olean, N. Y.)

Kishiminetas Natural Gas Co., Pittsburg.

Capital stock, \$100,000.
 President, Henry Wittmer.
 Manager, E. L. Bartley.
 Purchasing agent, E. L. Bartley.
 Price gas, gross, domestic, 25c.
 Cities supplied: Apollo, Leechburg, Hyde
 Park and Hillville.

Manufacturers Light and Heat Co., Pittsburg.

Office, Farmers Bank Building.
 Capital stock, authorized, \$25,000,000; issued,
 \$21,000,000.
 Bonds, \$9,725,000 paid off annually; inter-
 est, 6 p. c.
 President, H. B. Beatty.
 Secretary, H. E. Seibert.
 Treasurer, E. H. Myers.
 Manager, H. B. Beatty.
 Price gas, gross, per 1,000 c. f., domestic, 25c.;
 industrial, 7c. to 15c.
 Cities supplied: Pittsburg, Allegheny, Wash-
 ington, Canonsburg, Waynesburg, Aralon,
 Bellevue, Coraopolis, Ben Avon, Glen-
 field, etc.
 Practically all towns in Southwestern Penn-
 sylvania.

Welsbach System of Street Lighting

Monongahela Natural Gas Co., Pittsburg.

Office, South Tenth and Muriel Sts.
Capital stock, \$1,000,000.
President, James B. Oliver.
Manager, T. B. Foley.
Wells drawn from, 65. Miles pipe line, 82.
No. domestic consumers, 338.
Price gas, gross, per 1,000 c. f., domestic, 15c., 20c., 25c., net; industrial, 10c.
Value of gas supplied, 1903, approx., \$393,924.
Supplies Deemston, Finleyville, Gastonville, Clairton, Carrick, Bruce, Gill Hall, Venetia, Hacket, Bentleyville, Deemston, Centreville and south side of city of Pittsburg.

Philadelphia Co., Pittsburg.

Office, 435 Sixth Avenue.
Operates and controls the following companies:
Allegheny Heating Co.
Acme Gas Co.
Acme Fuel Co.
Braddock Fuel Co.
Carpenter Natural Gas Co.
Chartiers Valley Gas Co.
Duquesne Gas Co.
Equitable Gas Co.
Fuel Gas Co. of Allegheny County.
Low Pressure Gas Co.
Mansfield and Chartiers Gas Co.
Penn Fuel Co.
Pennsylvania Natural Gas Co.
Suburban Gas Co.
Tarentum Light and Heat Co.
Union Gas Co.

(Data below includes all the above companies.)

Capital stock, com., \$28,953,029.16; pref., \$5,774,812.50.
Bonds, \$5,500,000; due 1949; \$12,812,850 due 1951; interest, 5 p. c.
Annual dividends, pref., 5 p. c.; com., 6 p. c.
President, J. H. Reed.
General manager, J. F. Guffey.
Purchasing agent, Matthew Bigger.
Auditor, C. S. Mitchell.
Wells drawn from, 503. Miles of pipe line, 1,176.
No. domestic consumers, 46,651.
Price gas, gross, per 1,000 c. f., domestic, 27c.; industrial, 15c.
Value of gas supplied, 1903, \$4,181,951.25.
Cities supplied: Pittsburg and adjacent territory.

Taylorstown Natural Gas Co., Pittsburg.

Superintendent, A. Ploof.
Cities supplied: Taylorstown and Claysville.

The Peoples Natural Gas Co., Pittsburg.

Office, Tradesmen's Bank Building.
President, C. N. Payne.
Purchasing agent, C. M. Holbrook.
No. domestic consumers, 17,000.
Cities supplied: Pittsburg and boroughs of

Wilkinsburg, Edgewood, Swissvale, Rankin, Arnold, New Kensington and Greensburg.

Tri-State Gas Co., Pittsburg.

Office, 810 Tradesmen's Bank Building.
Capital stock, common, \$1,500,000.
Bonds, \$280,000; int., 6 p. c.
President, H. McSweeney.
Secretary, Samuel McCrum.
Manager, F. M. Lowry.
Purchasing agent, F. M. Lowry.
Wells drawn from, 55; miles pipe line, 130.
Price gas, gross, per 1,000 c. f., domestic, 25c. industrial, 10c.
Value of gas supplied, 1903, approx., \$437,000
Cities supplied: Wellsburg, W. Va.; Steubenville, Toronto, Mingo Junction, O. McDonald and Oakdale and part of West End, Pittsburg, Pa.

Undercliff Natural Gas Co., Pittsburg.

(Merged with Kiskiminetas Natural Gas Co.)

Citizens Gas Co., Port Allegany.

Capital stock, \$159,600.
President, J. E. Dusenbury.
Manager, C. Wolford.
Secretary, Fred. O. Davis.
Wells drawn from, 49; miles pipe line, 25.
No. domestic consumers, 600.
Price gas, gross, per 1,000 c. f., domestic, 15c.; industrial, 7c.
Value of gas supplied, 1903, approx., \$35,000.
City supplied, Port Allegany.

The Manufacturers Gas and Fuel Co., Port Allegany.

Capital stock, \$20,000.
President, Henry N. Rose.
Manager and pur. agent, N. R. Bard.
Wells drawn from, 3. Miles pipe line 10.
Price gas, gross, industrial, 10c. per 1,000 c. f.
Value of gas supplied, 1903, approx., \$20,000.
Supplies manufacturers in Port Allegany.

Mahoning Gas and Heat Co., Punxsutawney.

Manager, R. E. Townsend.
Supplies Punxsutawney, Lindsey, Hamilton and Valier.

Putneyville Natural Gas Co., Putneyville.

Capital stock, \$2,800; annual div., 16 p. c.
President, L. M. Putney.
Manager, B. H. Putney.
Purchasing agent, B. H. Putney.
Wells drawn from, 1. Miles pipe line, 0.5.
No. domestic consumers, 1901, 25.
Value gas supplied, 1903, \$45 to \$50 per month.
City supplied, Putneyville.

Clarion River Gas Co., Ridgeway.

(Merged with Ridgeway Light and Heat Co., Ridgeway.)

"The fact that the number of lamps in Worcester has been increased and the contract recommended by a unanimous vote of the City Council, is perhaps a sufficient answer to the inquiry if the service is satisfactory to the citizens of Worcester."

See advertisement, page xx.

HENRY A. KNIGHT, Superintendent of Street Lighting.

Ridgeway Light and Heat Co., Ridgeway.

Capital stock, \$400,000.
 President, O. B. Grant.
 Secretary, C. M. McCauley.
 Manager and pur. agent, C. H. Law.
 Wells drawn from, 51. Miles of mains, 43.
 Price gas, gross, domestic, 25c. per 1,000 c. f.
 Value gas supplied, 1903, \$71,906.
 No. domestic consumers, 1,745.
 Cities supplied: Ridgeway, Johnsonburg, Hallton, Arroyo, Portland Mills, Cannan, Cryland, Shawmut, Horton City, Mead Run, Jew Town, Brockport, Noble Hydcs and Brandy Camp.

Roulette Gas Co., Roulette.

Capital stock, \$10,000.
 President, W. G. Van Kuren.
 Manager and pur. agent, W. G. Van Kuren.
 Wells drawn from, 3. Miles pipe line, 20.
 No. domestic consumers, 400.
 Price gas, gross, per 1,000 c. f., domestic, 18c.; industrial, 6c.
 Value gas supplied, 1903, \$8,000.
 Cities supplied: Austin, Mina and Roulette.

St. Mary's Gas Co., St. Mary's.

Capital stock, \$150,000.
 President, C. W. Luhr.
 Manager, P. Dixon.
 Wells drawn from, 46. Miles pipe line, 90.
 No. domestic consumers, 1,700.
 Price gas, gross, per 1,000 c. f., domestic, 20c.; industrial, 10c.
 Cities supplied: St. Mary's, Mt. Jewett, Emporium and Glen Hazel.

Sandy Lake and Stoneboro Gas Co., Sandy Lake.

Capital stock, \$10,000.
 President, H. B. Bailey.
 Purchasing agent, Austin Potter.
 Miles pipe line, 8.
 Price gas, gross, domestic, 29c.
 Supplies Sandy Lake.

Star Gas Co., Sheffield.

Capital stock, \$3,000.
 President, Ed. O'Donnald.
 Sec'y and treas., W. O. Skelton.
 Manager, A. P. Jones.
 Purchasing agent, M. L. Ekas.
 Wells drawn from 1. Miles pipe line, 2.
 No. domestic consumers, 16.
 Price gas, gross, per 1,000 c. f., domestic, 12c.
 Value of gas supplied, 1903, \$672.72.
 Supplies Sheffield.

H. P. Griffith, Slippery Rock.

Owner, H. P. Griffith.
 Wells drawn from, 10. Miles pipe line, 6.
 No. domestic consumers, 185.
 Value of gas supplied, 1903, approx., \$5,500.
 City supplied, Slippery Rock.

Smithport Gas Co., Smithport.

Capital stock, \$1,000,000.
 President, D. C. Young.
 Manager and pur. agent, G. W. W. Mitchell.
 Wells drawn from, 38. Miles of pipe line, 25.
 No. domestic consumers, 500.
 Price gas, gross, per 1,000 c. f., domestic, 22c.; industrial, 5c. to 12c.
 Value of gas supplied, 1903, approx., \$30,000.
 City supplied, Smithport.

Straight Gas Co., Straight.

Capital stock, \$75,000.
 President, John Troy.
 Manager and pur. agent, John Troy.
 Wells drawn from, 8. Miles pipe line, 16.
 No. domestic consumers, 250.
 Price gas, gross, domestic, 18c.; industrial, 10c.
 Value of gas sold, 1903, \$18,000.
 Cities supplied: Straight and Instanter.

Citizens Gas Co., Tidioute.

Capital stock, \$100,000.
 President, Geo. H. Ahrens.
 Manager, F. A. Shaw.
 Purchasing agent, F. A. Shaw.
 Wells drawn from, 15. Miles pipe line, 12.
 No. domestic consumers, 300.
 Price gas per 1,000 c. f., gross, domestic, 27c.; net, 25c.
 City supplied, Tidioute.

Forest Gas Co., Tidioute.

Supplies Tidioute, Hickory, Grand Valley, Youngsville, Pittsfield, Garland and Irvineton.

Kellettville Gas Co., Tionesta.

Capital stock, \$5,000.
 President, O. W. Proper.
 Secretary, F. R. Lanson.
 Treasurer, J. A. Proper.
 Manager, L. Behrens.
 Purchasing agent, O. W. Proper.
 Wells drawn from, 6. Miles of pipe line, 6.
 No. domestic consumers, 95.
 Value of gas supplied, 1903, \$2,500.
 Supplies Kellettville.

Tionesta Gas Co., Tionesta.

Capital stock, \$50,000.
 President, T. F. Ritchey.
 Manager, J. R. Clark.
 Purchasing agent, J. R. Clark.
 Wells drawn from, 10. Miles pipe line, 15.
 No. domestic consumers, 249.
 Price gas, gross, per year, domestic, cook stove, \$20; heater, \$10; industrial, per 1,000 c. f., 9c.
 Value of gas supplied, 1903, approx., \$9,000.
 Borough supplied, Tionesta.

The Federal Gas Co., Titusville.

Capital stock, \$300,000.
 Bonds issued \$100,000; sold, \$15,000; due 1911; interest 6 p. c.

The **Welsbach** STREET LIGHT is now extensively used on many of the principal streets of New York City. See advertisement, page xx.

President, John A. Connolly.
 Manager and pur. agent, John A. Connolly.
 Treasurer, J. P. Mullin.
 Wells drawn from, 5. Miles pipe line 20.
 No. domestic consumers, 500.
 Price gas, gross, domestic per 1,000, 25c.
 Supplies Hydetown, Titusville and Troy
 Center. Also supplies Titusville Gas and
 Power Co.

Titusville Gas and Power Co., Titusville.

Capital stock, \$50,000.
 Bonds, \$25,000; due 1920; int. 5 p. c.
 President, John A. Connolly.
 Sec'y and Treas., J. P. Mullin.
 Manager and pur. agt., John A. Connolly.
 Agent, Alfred A. Smith.
 Superintendent; M. L. Church.
 Gas supplied from Federal Gas Co.
 Miles pipe line, 12.
 No. meters, 500.
 Price gas, gross, 25c.; net, 23c.
 Supplies Titusville.

Fayette County Gas Co., Uniontown.

(No report.)

Smock Gas Co., Uniontown.

(New company.)
 Capital stock, \$10,000.
 President, A. C. Hagan.
 Secretary, McClellan Leonard.
 Manager, H. D. Hutchinson.

United Light Co., Uniontown.

(No report.)

Vandergrift Fuel Co., Vandergrift.

Agent, J. S. Horn.
 Supplies Vandergrift.

Pennsylvania Gas Co., Warren.

Capital stock, \$2,000,000.
 President, C. N. Payne.
 Secretary, W. H. Diller.
 Price gas, gross, per 1,000 c. f., domestic, 27c.,
 29c. and 32c.
 Cities supplied: Erie, Corry, Warren, Pa., and
 Jamestown, N. Y.

Warren and Chautauqua Gas Co., Warren.

Capital stock, \$200,000.
 President, Wm. Barnsdall.
 Manager and pur. agent, E. P. Whitcomb.
 Wells drawn from, 19. Miles pipe line, 40.
 No. domestic consumers, 1,450.
 Price gas, per 1,000 c. f., domestic, 25c.; in-
 dustrial, 12c.
 City supplied, part of Warren.

Relief Gas Co., Washington.

(No report.)

**Citizens Natural Gas Co., of Waynesburg, Waynes-
 burg.**

(Merged with the Manufacturers Light and
 Heat Company.)

Dunn's Station Oil and Gas Co., Waynesburg.

Capital stock, \$200,000.
 President, Timothy Ross.
 Manager and pur. agent, Timothy Ross.
 Wells drawn from, 9. Miles of pipe line, 59.
 No. domestic consumers, 325.
 Price gas, gross, per 1,000 c. f., 20c.
 Value of gas supplied, 1903, \$9,000.
 Towns supplied: Ninereli, Amity, Prosperity
 Sparta, Sycamore.

Greene County Natural Gas Co., Waynesburg.

Capital stock, \$30,000.
 President, A. I. Cooke.
 Sec'y and treas., A. B. Reese.
 Miles pipe line, 30.
 Cities supplied: Rogersville, Holbrook Bluff
 and Jolleytown.

Ten-Mile Natural Gas Co., Waynesburg.

Capital stock, \$50,000.
 President, A. I. Cooke.
 Sec'y and treas., A. B. Reese.
 Manager, A. B. Reese.
 Wells drawn from, 4. Miles pipe line, 30.
 No. domestic consumers, 400.
 Price gas, gross, per 1,000 c. f., domestic, 20c.;
 industrial, 7c.
 Value of gas supplied, 1903, approx., \$10,000.
 Small towns supplied: Jefferson, Rices Land-
 ing, Millsboro, Fredericktown, Zollars-
 ville, Tippincott and Centreville.

Waynesburg Home Gas Co., Waynesburg.

(Not yet supplying gas.)
 Capital stock, \$50,000.
 President, J. L. Ross.
 Secretary, H. C. Sayers, Jr.
 Manager, C. E. Dittman.
 Price gas, gross, domestic, 12.5c. per 1,000 c. f.

Waynesburg Natural Gas Co., Waynesburg.

(Merged with The Manufacturers Light and
 Heat Company.)

Manufacturers Gas Co., Wilcox.

(Sold to United Natural Gas Co.)

Wilcox Gas Co., Wilcox.

(Sold to United Natural Gas Co.)
 Wells drawn from, 3. Miles pipe line, 5.
 No. domestic consumers, 245.
 Price gas, gross, per 1,000 c. f., domestic, 20c.;
 industrial, 8c.
 City supplied, Wilcox.

Extract from report of Department of Public Works, New York City:

"I was very much surprised during a recent visit to Paris to discover that the **Welsbach** had superseded electricity on all the grand avenues, especially the Champs Elysees."

See advertisement, page xx.

CHAS. H. T. COLLIS, Commissioner.

Sergeant Gas Co., Williamsport.

Capital stock, \$24,000.
 President, A. D. Hermance.
 Manager, N. B. Bubbs.
 Purchasing agent, C. H. Heim.

Wells drawn from, 18; miles pipe line, 25.
 No. domestic consumers, 50.
 Price gas, gross, per 1,000 c. f., domestic, 25c.;
 industrial, 8c.
 Value of gas supplied, 1903, \$22,000.

WEST VIRGINIA.**Buckhannon Gas Co., Buckhannon.**

(No report.)

The Cameron Gas and Oil Co. of Cameron, Cameron.

Office, Times Building, Pittsburg.
 Capital stock, auth., \$100,000; issued, \$31,900.
 President, Wm. Flinn.
 Sec'y and treas., W. J. Diehl.
 Manager, A. B. Dally, Jr.
 Purchasing agent, F. C. Leslie.
 Gas purchased from Wheeling Natural Gas
 Company.
 Town supplied, Cameron.

Charleston Natural Gas Co., Charleston.

Superintendent, J. D. Northrup.
 City supplied, Charleston.

Kanawha Natural Gas Light and Fuel Co., Charleston.

Capital stock, \$500,000.
 Bonds, \$300,000.
 President, W. O. Johnson.
 Purchasing agent, O. H. Hampton.
 Wells drawn from, 5. Miles of pipe line, 60.
 Price gas, gross; domestic 23c. per 1,000 c. f.
 City supplied, Charleston.

West Fork Oil and Natural Gas Co., Clarksburg.

(No report.)

Fairmount and Grafton Gas Co., Fairmount.

Capital stock, \$300,000.
 President, Jos. W. Craig.
 Sec'y and treas., C. W. Baker.
 Gen. mgr., A. L. Lowrie.
 Wells drawn from, 5; miles pipe line, 110.
 No. domestic consumers, 2,400.
 Price gas, gross, per 1,000 c. f., domestic, 12c.;
 industrial, 5c.
 Value of gas supplied, 1903, approx., \$102,000.
 Cities supplied: Fairmount, Grafton, Farm-
 ington and Shinnston.

Triple State Natural Gas Co., Huntington.

Manager, A. A. Lindsay.
 Supplies Huntington, Central City and
 Guyandotte.

Hope Natural Gas Co., Mannington.

(No report.)

Home Oil and Gas Co., Mannington.

Manager, J. M. Barrack.
 Supplies Mannington, Rymer and Logans-
 port.

West Fork Oil and Natural Gas Co., Mannington.

(No report.)

Union Improvement Co., Morgantown.

Manager, H. R. Warfield.
 (No report.)

Union Utility Co., Morgantown.

Capital stock, \$748,500.
 Bonds, \$1,000,000; due, 1943, interest, 5 p. c.
 President, I. C. White.
 Manager and pur. agent, H. R. Warfield.
 Wells drawn from, 20. Miles pipe line, 40.
 No. domestic consumers, 1,250.
 Price gas, gross domestic; \$1.50 per mo. for
 cook stove; \$10.50 per year for heater;
 industrial, 5c. per 1,000 c. f.
 Value gas supplied, 1902, \$78,000.
 Cities supplied: Morgantown, W. Va., and
 Point Marion, Pa.

West Virginia Heat and Light Co., Pennsboro.

(No report.)

Salem Natural Gas Co., Salem.

(No report.)

Keystone Oil and Gas Co. of Chicago, Sistersville.

Capital stock, \$50,000.
 President, J. M. Childers.
 Sec'y and treas., R. L. Gregory.
 Purchasing agent and mgr., J. M. Childers.
 Wells drawn from, 2. Miles pipe line, 15.
 No. domestic consumers, 100.
 Price gas, gross, per 1,000 c. f., domestic, 15c.;
 Value of gas supplied, 1903, approx., \$30,000.

Mountain State Gas Co., Sistersville.

Supplies Clarksburg, Sistersville, Parkers-
 burg and Friendly, W. Va., New Matamo-
 ras and Belpre, O.

Wilson H. S. Oil and Gas Co., Waverly.

(No report.)

Keenens Oil, Natural Gas and Fuel Co., Weston.

Manager, Geo. I. Keener.
 Supplies Weston.

Wheeling Natural Gas Co., Wheeling.

Office, 325 Farmers' Bank Bldg., Pittsburg.
 Capital stock, \$1,500,000; annual div., 10 p. c.
 President, H. B. Beatty.
 Sec'y and treas., W. J. Diehl.
 Manager, A. B. Dally, Jr.
 Purchasing agent, F. C. Leslie.
 Cities supplied: Wheeling, Moundsville,
 Benwood and Cameron, W. Va.; Bellaire,
 Bridgeport and Martins Ferry, O.

THE WELSBACH STREET LIGHT possesses absolute immunity from flickering or smoke in the lanterns; also from bugs and other outside obstructions to illumination. See advertisement, page xx.

ACETYLENE GAS PLANTS.

ALABAMA.

Carrollton Acetylene Gas Plant, Carrollton.

(Owned by city.)
 Mayor, A. W. Latham.
 Process of manufacture, Acetylene, Aurora generator.
 Mains approximate, 1,700 feet.
 Price per burner per mo. 75c. and \$1.

Fayette Acetylene Gas Co., Fayette.

Superintendent, W. D. Putnam.
 Mains approximate, 2,000 ft.
 Process manf., Acetylene; Aurora generator.
 No. meters, 5. Mains, approx., 0.5 mile.
 No. public lamps, 38.

Gurley Acetylene Gas Plant, Gurley.

(Municipal.)
 Mayor, J. W. Bartee.
 Process of manufacture, Acetylene, Aurora-generator.
 Price gas per 1,000 c. f., \$10.

Town of Luverne Gas Plant, Luverne.

Mayor, T. W. Shows.
 Secretary, A. B. Brooks.
 Treasurer, A. B. Brooks.
 Process manufacture, Acetylene.
 Miles of mains approximate, 0.75.
 Price gas 1903: Light per mo., \$2.50.
 No. public lamps, 9.

ARKANSAS.

*Acetylene Gas Plant, Mulberry.

(No report.)

Waldron Gas Light Co., Waldron.

Capital stock, \$5,000; annual div. 10 p. c.
 Bonds, \$1,000; due 1905; int. 10 p. c.
 President, F. Malone.
 Secretary, John W. Goolsby.
 Treasurer, M. C. Malone.
 Pur. agt. and supt., F. Malone.
 Process manf., Acetylene; Eagle generator.
 Pop. dist. supplied, 1,500. Meters, 24.
 Miles of mains, approximate, 1.5.
 Price gas 1903, per 1,000 c. f., \$10.
 No. public lamps, 8. Price per year, \$18.
 Consumption per burner per hour, 2 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 2,000.
 Annual output, approx., 200,000 c. f.
 Candle-power, 25.

* Reported as being in operation.

COLORADO.

Arvada Lighting, Power and Construction Co., Arvada.

Capital stock, \$50,000.
 President, W. W. Rollins.
 Vice-president, W. T. Jeffries.
 Secretary, J. B. Johns.
 Treasurer, Wm. Graver.
 Purchasing agent, Board of Directors.
 Process manufacture, Acetylene, Monarch generator.
 Pop. dist. supplied, 800. No. meters, 40.
 Miles of mains, approximate, 1.75.
 Price gas 1903: per 1,000 c. f., \$17.50; net, \$16.
 Gas stoves in use, 12.

The Castle Rock Light, Heat and Power Co., Castle Rock.

Capital stock, \$5,000; annual div., 9 p. c.
 President, Wallace Holcomb.
 Secretary and treas., E. P. Brown.
 Process manf., Acetylene; O. F. Rhoads generator.
 Pop. dist. supplied, 400. No. meters, 25.
 Miles of mains, approximate, 0.75.
 Price gas, 1903, per 1,000 c. f., gross, \$20; net \$18.
 No. public lamps, 11. Price per year, \$24 to \$48.
 Consumption per burner per hour, 2 to 4 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 2,400.
 Annual output, approximate, 75,000 c. f.

*Acetylene Gas Plant, Lyons.

Capital stock, \$3,000.
 (No report.)

CONNECTICUT.

Lakeville Gas Co., Lakeville.

Capital stock, \$8,000.
 President, Donald T. Warner.
 Secretary, John S. Perkins.
 Treasurer, John S. Perkins.
 Process manf., Acetylene; Troubetzkoy generator.
 Pop. dist. supplied, 1,500. No. meters, 43.
 Miles of mains, 3.
 No. private street lamps, 17.
 Supplies Lakeville and Salisbury.

Litchfield Gas Light Co., Litchfield.

Capital stock, \$10,000.
 President, Chas. H. Woodruff.
 Secretary, Jno. P. Woodruff.
 Treasurer, Wm. T. Marsh.
 Superintendent, Wm. T. Marsh.
 Process manf., Acetylene; Williamson generator.

Welsbach Street Lighting Co. of America

No. meters in use, 80.
 Miles of mains, approximate, 6.
 Price of gas, 1903; Light, net \$12.50 per 1,000.
 No. public lamps (contract), 114. Price, per year, \$14.
 Consumption per burner, per hr., 5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Lamp is lighted to 12 P. M., moon scale.

Cable Gas Co., New Milford.

Capital stock, \$15,000.
 President, Lewis F. Curtis.
 Secretary, Noble Bennitt.
 Treasurer, Noble Bennitt.
 Purchasing agent, Noble Bennitt.
 Superintendent, Noble Bennitt.
 Process manf., Troubetzkoy (acetylene).
 Population, town, 1,500. No. consumers, 65.
 Miles of mains, 4.
 Price gas, 1903: Light, net \$20.
 No. public lamps, 3.
 Consumption per burner per hr., $\frac{1}{8}$ to $\frac{1}{2}$ c. f.
 Candle-power, 25 for a $\frac{1}{2}$ -ft. burner.

G. Clifford Scoville, Norfolk.

(Private ownership, new plant.)
 Process manufacture, Acetylene, Aurora generator.
 Supplies 2 stores and 2 dwellings.
 Mains, approximate, 1,000 feet.
 Price gas, 1903: \$15 per 1,000 c. f.
 No. lamps, 78.

Ridgefield Illuminating Gas Co., Ridgefield.

Manager, Edward J. Murphy.
 Secretary, C. B. Enbody, Bridgeport, Conn.
 Miles of mains, 2.25.

GEORGIA.

Acetylene Gas Plant, Royston.

(Municipal.)
 Process of manufacture, Acetylene, Aurora generator.
 Street lights, 12.

ILLINOIS.

Shanon Gas Co., Shannon.

Owners: Noble Wilcox and C. B. Miller.
 Process of manufacture, Acetylene.
 Miles of mains, approx., 3.

INDIANA.

Draper Manufacturing and Gas Co., Ltd., Dana.

Capital stock, \$5,000. Annual div., 10 p. c.
 President, E. B. James.
 Sec'y and treas., W. M. Taylor.
 Pur. agent and supt., W. M. Taylor.
 Mechanical engineer, F. M. Draper.
 Process manf., Acetylene; Draper generator.
 Pop. dist. supplied, 200 (business portion).
 No. meters, 30.
 Mains, approximate, 3,500 feet.
 Price gas, 1903, per 1,000 c. f. gross, \$13.50; net, \$12.50.
 No. public lamps, 2. Price per year each, \$96.

Consumption per burner per hour, 2 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Lighted moon scale to 11 P. M.
 Annual output, approx., 61,120 c. f.
 Supplies Dana.

New Palestine Acetylene Gas Co., New Palestine.

(Plant owned by town.)
 Capital stock, \$2,300.
 President, Henry Fralich.
 Secretary, John F. Kirkhoff.
 Treasurer, Chas. H. Faut.
 Superintendent, William E. Ashcraft.
 Process manufacture Acetylene; Colt generator.
 Pop. dist. supplied, 404. No. meters, 5.
 Miles of mains, approximate, 1.5.
 Price gas, 1903: Light per 1,000 c. f., \$10.
 No. public lamps, 30.
 Price does not include repairs, care, lighting and extinguishing.
 Supplies New Palestine.

Wabash Gas Works, Wabash.

(Municipal.)
 General manager, S. T. Murdock.
 Superintendent, G. S. Courtier.
 Process manf., Williamson (acetylene).
 Pop. dist. supplied, 8,000.
 Price gas, 1903: Light, gross and net \$10.
 Consump. per burner per hour, $\frac{1}{3}$, $\frac{1}{2}$ and $\frac{3}{4}$ c. f.
 Annual output, approx., 1,000,000 c. f.
 Candle-power, 240.
 (Natural gas is used for fuel purposes.)

IOWA.

Adair Gas Light Co., Adair.

Capital stock, \$2,500; annual div., 10 p. c.
 President, H. W. Patten.
 Secretary, A. C. Savage.
 Treasurer, A. C. Savage.
 Purchasing agent, A. C. Savage.
 Superintendent, G. W. Goodhart.
 Process manuf., Acetylene, Abner generator.
 Pop. dist. supplied, 900. No. meters, 45.
 Miles of mains, approximate, 3.
 Price gas, 1903: Light, per 1,000, gross \$15.
 No. public lamps, 15.
 Supplies Adair.

Acetylene Gas Plant, Arlington.

(Owned by Iowa Light and Heat Co.)
 Miles mains, 2. No. consumers, 79.
 Price gas per 1,000 c. f., \$15.

Blanchard Gas Co., Blanchard.

Capital stock, \$1,000.
 President, W. N. Dewhurst.
 Secretary and treasurer, Frank Hooker.
 Purchasing agent, Frank Hooker.
 Superintendent, J. J. Benn.
 Process manufacture Acetylene; Fuert and Martin generator.
 No. meters, 35.
 Miles of mains, approximate, 1.5.
 Price gas 1903: Per 1,000 c. f., \$15.
 Annual output, approximate, 60,000 c. f.

"I would state that the **Welsbach** System of Street Lighting that was installed in this city in June, 1898, has proved entirely satisfactory to this Department."

(Signed) WILLIAM D. LANG, Superintendent of Lamps, Boston, Mass.
 See advertisement, page xx.

***Thompson and Kelley Acetylene Gas Plant, Columbus Junction.**

(No report.)

Delmar Gas Light Co., Delmar.

Capital stock, \$4,000; annual div., 6 p. c.
 President, G. W. Wilson.
 Treasurer, H. L. Steem.
 Superintendent, F. L. Sunderlin.
 Process manufacture, Acetylene; Abner generator.
 Pop. dist. supplied, 300. No. meters, 40.
 Miles of mains, approximate, 1.75.
 Price gas 1903: Per 1,000 c. f., gross \$15; net, \$10.
 No. public lamps, 16. Price per year, \$24.
 Consumption per burner per hour, 0.5 c. f.
 Price includes only lighting.
 No. hours lamp is lighted per year, 1,000.
 Proportion sold for fuel purposes, 10 p. c.
 Gas stoves in use, 2.
 Supplies Delmar.

Gladbrook Acetylene Gas Plant, Gladbrook.

(Owned by Iowa Light and Heat Co.)
 Local manager, H. H. Wentzeim, Jr.
 Price gas per 1,000 c. f., \$15.

Town of Holstein Gas Plant, Holstein.

Capital stock, \$4,000.
 Mayor, Wm. Schippmann.
 Lighting committee: John Wents, J. Sietz, and Wm. Cizek.
 Process manf., Acetylene.
 No. meters, 60. Miles of mains, approx., 3.
 Price gas per 1,000 c. f., \$10.
 No. public lamps, 32.
 Consumption per burner, per hour, 0.75 c. f.
 Lighted 720 hours.

***Western Construction Co., Mapleton.**

(No report.)

Maxwell Acetylene Gas Plant, Maxwell.

(Owned by Iowa Light and Heat Co.)
 President, A. L. Bartholomew.
 Secretary and treasurer, E. C. Hornick.
 Price gas per 1,000 c. f., \$15.

Acetylene Gas Plant, Postville.

(Owned by Iowa Light and Heat Co.)
 Process of manufacture, Acetylene.
 Miles of mains, approximate, 1.8.
 Price gas per 1,000 c. f., \$15.

Iowa Light and Heat Co., Preston.

Capital stock, \$70,000.
 President, A. L. Bartholomew.
 Secretary and treas., E. C. Hornick.
 General mgr., E. C. Hornick, Cedar Rapids.
 Process manf., Acetylene; Peerless generator.
 Miles of mains, approx., 8.
 Price gas, 1903; Light, 1,000 c. f., gross \$15.
 No. public lamps, 40.
 Plants operated in Preston, Arlington, Gladbrook, Postville and Maxwell.

***Acetylene Gas Plant, Sabula.**
(No report.)**KANSAS.****Jones Acetylene Gas Works, Burr Oak.**

Capital stock, \$3,000.
 Owner, W. B. Jones.
 Superintendent, E. L. Skirer.
 Process manufacture, Acetylene "frost proof" generator.
 Pop. dist. supplied, 700. No. meters, 46.
 Miles of mains, approximate, 1.
 Price gas, 1903: Per 1,000 c. f., \$15.
 No. public lamps, 2. Price per 1,000 c. f., \$20.
 Consumption per burner, per hour, 3 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 730.
 Annual output, approximate, 120,000 c. f.
 Supplies Burr Oak.

Acetylene Gas Plant, Frontenac.

(In course of construction.)
 Process manufacture, Acetylene, Ideal generator.

Goffs Gas Light Co., Goffs.

Capital stock, \$500.
 President, H. F. Hindes.
 Secretary and treasurer, C. H. Hayes.
 Superintendent, Charles Keinson.
 Process manufacture, Acetylene; Eagle generator.
 Pop. dist. supplied, 100. No. meters, 24.
 Miles of mains, approximate, 1.
 Price gas, 1903: per 1,000 c. f., gross \$13; net \$12.
 No. public lamps, 7. Price per year, \$24.
 Price includes care, lighting and extinguishing.
 No. hours lamp is lighted per year, 1,000.
 Annual output, approximate, 50,000 c. f.
 Supplies Goffs.

Lebanon Acetylene Gas Plant, Lebanon.

Process manufacture, Acetylene.
 Miles of mains, approximate, 1.5.
 Price gas, per 1,000 c. f., \$15.

Acetylene Gas Plant, Mankato.

(In course of construction.)

Wakefield Gas Co., Wakefield.

Capital stock, \$1,000.
 President, W. H. Hewitt.
 Treasurer, Charles Hewitt.
 Pur. agent and supt., W. H. Hewitt.
 Process manufacture, Acetylene; Revolution generator.
 Pop. dist. supplied, 400. No. meters, 18.
 Miles of mains, approximate, 0.33.
 Price gas, 1903: per 1,000 c. f., \$13.50.
 No. public lamps, 4. Price per year, \$18.
 Consumption per burner, per hour, 0.75 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 600.
 Annual output, approximate, 11,000 c. f.
 Candle-power, 50.
 Supplies Wakefield.

* Reported as being in operation.

THE WELSBACH STREET LIGHTING COMPANY OF AMERICA furnishes a special Park Lamp, which is particularly suitable for the lighting of public parks and boulevards. See advertisement, page xx.

LOUISIANA.

Mansfield Light and Heat Co., Mansfield.

Superintendent, Wm. Overing.
Process manufacture, Acetylene.
Miles of mains, approximate, 3.20.
No. public street lamps, 35.

MAINE.

Andover Acetylene Gas Plant, Andover.

(Private plant.)
Owner, R. A. Grover.
Process manufacture, Acetylene; Victoria generator.
Mains, approximate, 1,500 feet.
Price of gas, per 1,000 c. f., \$15.

Boothbay Harbor Light, Heat and Power Co., Boothbay Harbor.

Capital stock, \$10,000.
President, K. H. Richards.
Sec'y and treas., C. J. Marr.
Purchasing agent, C. J. Marr.
Superintendent, H. G. Stevens.
Process manufacture, Acetylene; Colt Carbide Feed, 1,000 light generator.
Pop. dist. supplied, 1,000. No. meters 42.
Miles of mains, approx., 2.5.
Price gas, 1903: Light, net \$15 per 1,000.
Annual output, approx., 125,000 c. f.
Supplies Boothbay Harbor and Squirrel Island.

Castine Gas Co., Castine.

Capital stock, \$10,000.
President, W. A. Walker.
Secretary and treasurer, W. G. Sargent.
Process manufacture, Acetylene; Victoria generator.
Pop. dist. supplied, 1,000. No. meters, 27.
Miles of mains, approximate, 2.75.
Price gas, 1903: per 1,000 c. f., \$15.
No. public lamps, 26.
Annual output, approximate, 94,500 c. f.
Candle-power, 25.
Supplies Castine.

Damariscotta Gas Light Co., Damariscotta.

(Not yet in operation.)
Capital stock, \$10,000.
President, E. W. Nash.
Secretary, H. E. Hall.
Treasurer, E. E. Philbrook.
Process manufacture, Acetylene.

Deer Isle Acetylene Co., Deer Isle.

Capital stock, \$10,000.
President, Joseph Heaton.
Secretary, Henry W. Oakes.
Treas. and supt., E. C. Woodworth.
Purchasing agent, E. C. Woodworth.
Process manuf., Acetylene; Victoria Model B generator.
No. meters, 17.
Miles of mains, approximate, 1.
Price gas, 1903, per 1,000 c. f., \$15.
No public lamps, 15. Price per year, \$12.
Consumption per burner per hour, 0.5 c. f.

Price includes repairs, care, lighting and extinguishing.

No. hours lamp is lighted per year, 525.

J. P. Johnson Acetylene Plant, Dixfield.

Capital stock, 1,200.
Process manufacture, Acetylene; Victoria generator.
Supplies 10 stores, hotel and post office.
Price gas, 1903: \$15.

Gray Lighting Co., Gray.

Capital stock, \$10,000.
President, James T. Hancock.
Treasurer, Frank L. Clark.
Pur. agent and supt., J. W. Stevens.
Process manufacture, Acetylene; Hill system.
Miles of mains, approximate, 0.5.
Price gas, per 1,000 c. f., \$15.
Supplies Gray.

Lisbon Falls Acetylene Gas Co., Lisbon Falls.

Capital stock, \$5,000; dividends used for extensions.
President, H. E. Coalridge.
Secretary and treas., F. C. Crosman.
Purchasing agent, F. C. Crosman.
Superintendent, R. J. Beal.
Process manuf., Acetylene; Drake generator.
No. meters, 45. Miles of mains, approx., 1.
Price gas, 1903, per 1,000 c. f., \$15.
Annual output, approx., 100,000 c. f.
Supplies Lisbon Falls village.

Millinocket Light Co., Millinocket.

Process manufacture, Acetylene; Housson generator.
Miles of mains, approx., 6.25.
No. consumers, 100.
No. street lamps, 60.

Peak Island Gas Co., Peak Island.

(Private ownership.)
Owner and manager, Albert W. Dyer.
Process manufacture, Acetylene; Colt generator.
Pop. dist. supplied, 2,000. No. meters, 28.
Miles of mains, approximate, 1.5.
Price gas, 1903: per 1,000 c. f., \$20.
No. public lamps, 12.
No. hours lamp is lighted per year, 1,500.
Annual output, approximate, 200,000 c. f.
Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 3 in.
Supplies Peak Island.

Sebago Lake Lighting Co., Sebago Lake.

Capital stock, \$10,000.
President, D. D. Tripp.
Secretary, J. J. Webster.
Treasurer and pur. agent, L. Rich.
Superintendent, Albert Smith.
Process manuf., Acetylene, Hill generator.
Mains, approx., 3,700 feet. No. meters, 11.
Price gas per 1,000 c. f., \$15.
Supplies village of Sebago Lake.

The "Candle Power" given by the IMPROVED **Welsbach STREET LIGHT** is more efficient for street illuminations than that obtained by any other means. See advertisement, page xx.

Steep Falls Lighting Co., Steep Falls.

Capital stock, \$10,000.
 President, Guy Sturgis.
 Secretary, Frank L. Stront.
 Treasurer and pur. agent, S. H. Consers.
 Superintendent, Frank L. Stront.
 Process manufacture, Acetylene; Hill system.
 Mains, approximate, 4,080 feet.
 Price gas, 1903: per 1,000 c. f., \$15.
 Supplies Steep Falls.

Vinalhaven Lighting Co., Vinalhaven.

Capital stock, \$10,000.
 President, F. S. Walls.
 Secretary, T. E. Libby.
 Treasurer, H. L. Raymond.
 Purchasing agent, T. E. Libby.
 Process manufacture, Acetylene; Colt generator.
 Pop. dist. supplied, 2,500. No. meters, 40.
 Miles of mains, approximate, 2.
 Price gas, 1903: per 1,000 c. f., \$15.
 Supplies Vinalhaven.

Winter Harbor Gas Light Co., Winter Harbor.

Capital stock, \$10,000.
 President, Bedford E. Tracy.
 Secretary, F. R. Bunker.
 Treasurer, C. E. Groover.
 Superintendent, W. B. Jordan.
 Process manufacture, Acetylene; Abner generator.
 Pop. dist. supplied, 600. No. meters, 32.
 Miles of mains, approximate, 1.5.
 Price gas, 1903: per 1,000 c. f., \$15.
 No. public lamps, 19. Price per year, \$25.
 Price includes repairs, care, lighting and extinguishing.
 Supplies Winter Harbor.

MASSACHUSETTS.**V.H. Nickerson Acetylene Gas Plant, Contuit.**

Process manufacture, Acetylene; Nickerson generator.
 No meters, 16.
 Miles of mains, approx., 1.
 Price gas, 1903, \$15.
 Annual output, approximate, 30,000 c. f.
 Supplies villages of Hyannis and Contuit.

Hadley Gas Co., Hadley.

(Not incorporated.)
 Capital stock, \$1,000.
 President, F. H. Smith.
 Secretary and treasurer, Fred. Lamont.
 Purchasing agent, F. H. Smith.
 Process manuf., Acetylene; Colt generator.
 Miles of mains, 0.25 of a mile. No. meters, 3.
 Price gas, 1903, per 1,000 c. f., \$15.

Hatfield Acetylene Gas Plant, Hatfield.

Process manuf., acetylene; Colt generator.

Marion Gas Co., Marion.

Capital stock, \$15,000.
 President, B. E. Waters.

Secretary, A. W. Rice.
 Treasurer, H. W. Everest.
 Superintendent, I. E. Hiller.
 Process manufacture, Acetylene; Drake.
 International Heater Co.
 Pop. dist. supplied, 1,000. No. meters, 30.
 Miles of mains, approximate, 4.75.
 Price gas, 1903: Light, per 1,000 c. f., net \$12.50.
 No. public lamps, 64.
 Consumption per burner per hour, 0.5 c. f.
 Contract includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 1,250 hrs.
 Annual output approx., 140,000.
 Candle-power, 18.
 Supplies Marion.

South Attleboro Gas Co., South Attleboro.

President, Thomas G. Sadler.
 Process manf., Acetylene; Abner Giant generator.
 Pop. dist. supplied, 700. No. meters, 30.
 Miles of mains, 1.
 Price of gas, Light and fuel, per 1,000 c. f., net, \$12.50.
 Annual output, approx., 75,000 c. f.

South Deerfield Gas Co., South Deerfield.

Capital stock, 4,200.
 President, A. A. Jewett.
 Superintendent, Ernest Frary.
 Process manf., Acetylene; Colt generator.
 Pop. dist. supplied, 1,250. No. meters, 21.
 Miles of mains, approximate, 4.
 Price gas, 1903: Per 1,000 c. f., Light, gross \$15.
 No. public lamps, 8.

South Hadley Gas Co., South Hadley.

Capital stock, \$3,000.
 President, Alvin L. Wright.
 Secretary, Geo. W. Hubbard.
 Treasurer and supt. Chas. A. Gridley.
 Process manf., Acetylene; Colt generator.
 No. meters, 21.
 Miles of mains approximate, 1.
 Price gas, 1903: Light, per 1,000 c. f., gross \$15; net, \$13.50.
 No. public lamps, 18. Price per year, \$13.33.
 Consumption per burner per hour, 0.5 c. f.
 Prices includes repairs, care, lighting and extinguishing.
 Lighted moon scale until 11 P. M.
 Annual output, approx., 60,480 c. f.
 Cities supplied, South Hadley.

Sunderland Gas Co., Sunderland.

Capital stock, \$3,500.
 President, F. L. Whitmore.
 Secretary, F. O. Williams.
 Treasurer, C. G. Trow.
 Superintendent, John Lawer.
 Process manuf., acetylene; Colt generator.
 No. meters, 12.
 Miles of mains, approximate, 1.
 Price gas, per 1,000 c. f., \$15.

Vineyard Haven Gas and Electric Light Co., Vineyard Haven.

(Expects to build plant spring of 1904.)

Extract from report of the Chief Engineer of Fairmount Park, Philadelphia. in regard to Welsbach Park Lights: "The **Welsbach** Lights with which you are now lighting the great pleasure ground of the city of Philadelphia are giving great satisfaction, adding greatly to the attractiveness of the Park."

See advertisement, page xx.

MARYLAND.

E. Tucker & Co., Forest Hill.

Process manuf., Acetylene; Rush generator.
No. meters, 6.
Miles of mains, approx., 1.12.
Price gas, 1903, per 1,000 c. f., \$10.
No. public lamps, 2.

Price gas, 1903, per 1,000 c. f. Light \$15.
Supplies Maitland.

The Gas Light Co., Osborne.

President, J. M. Lamar.
Process manuf., Acetylene; Eagle generator.
No. meters, 4.

MICHIGAN.

Saline Acetylene Lighting Co., Saline.

Capital stock, \$3,000.
President, H. W. Bartlett.
Secretary, A. J. Warren.
Treasurer, C. Burkhart.
Process manufacture, Acetylene; P. W. Shute,
non-explosive automatic generator.
Pop. dist. supplied, 1,000. No. meters, 18.
Miles of mains, approx., 2.08.
Price gas, 1903: Light, per 1,000 c. f., \$12.
No. public lamps, 17.

Wayne Gas Plant, Wayne.

(Principal office, American Acetylene Light-
ing Co., Battle Creek, Mich.)
Manager, D. O. Felt.
Process manuf., Acetylene, Shute generator.
Miles of mains, approximate, 3.
Price gas, gross, 1903, per 1,000 c. f., \$15; disc.
10 p. c.
No. public lamps, 24. Price per year, \$31.25.
Price includes repairs, care, lighting and
extinguishing.
No hours lamp is lighted per year, moon
light scale.

MINNESOTA.

Battle Lake Acetylene Gas Plant, Battle Lake.

(Owned by town.)
Value of plant, \$3,500.
Process of manufacture, acetylene; Standard
generator.
No. consumers, 35.
Price of gas per 1,000 c. f., \$20; disc., 25 p. c.
No. public lamps, 20.

Acetylene Gas Plant, Norwood.

(Owned by village.)
(In course of construction.)
Process of manufacture, acetylene; William-
son, generator.

MISSOURI.

Bolckow Gas Co., Bolckow.

Capital stock, \$5,000.
President, R. H. Martin.
Secretary and manager, John Houghteling.
Process manuf., Acetylene; Eagle generator.
No. meters, 12.
Price gas, 1903, per 1,000 c. f., \$15.
Supplies Bolckow.

R. H. Martin Gas Co., Maitland.

President and manager, R. H. Martin.
Process manuf., acetylene; Eagle generator.
No. meters, 28.

NEBRASKA.

Atkinson Heat and Light Co., Atkinson.

Capital stock, \$3,000.
Process manufacture, acetylene; Monarch
generator.
Price gas per 1,000 c. f., \$15.

Bancroft Acetylene Gas Plant, Bancroft.

Capital stock, \$1,250.
Manager, C. W. Winter.
Process manufacture, Acetylene; Monarch
generator.
No. meters, 24.
Miles of mains, approx., 2,500 ft.
Price gas, 1903, per 1,000 c. f., \$15.
No. public lamps, 1.
Gas stoves in use, 1
Supplies Bancroft.

Bassett Heat and Light Co., Bassett.

Capital stock, \$3,000.
President, J. L. Brayton.
Secretary, H. V. Gallaher.
Treasurer, H. E. Artus.
Process manufacture, Acetylene; Monarch
generator.
Pop. dist. supplied, 500. No. meters, 52.
Miles of mains, approximate, 2.
Price gas 1903: \$15.
No. public lamps, 6.
Annual output, approximate, 80,000 c. f.
Lowest pressure for gas stoves, 6 in.

J. H. Derby Acetylene Plant, Bellwood.

Process manufacture, Acetylene; Monarch
generator.
Pop. dist. supplied, 400. No. meters, 28.
Miles of mains, approx., 2.
Price gas per 1,000 c. f., \$15.
No. street lamps, 3.
Annual output, approx., 50,000 c. f.

Burwell Heat and Light Co., Burwell.

Capital stock, \$25,000.
President, P. P. Scott.
Secretary, L. B. Femmer.
Treasurer, W. L. McMullen.
Purchasing agent, L. B. Femmer.
Superintendent, F. M. Key.
Process manufacture, acetylene.
No. Meters, 60.
Price gas, per 1,000 c. f., \$15.
Supplies Burwell.

Dunbar Acetylene Gas Co., Dunbar.

Owners and pur. agents, C. F. Collins and T.
B. Adams.
Proc. manf., Acetylene; Monarch generator.
Pop. dist. supplied, 302. No. meters, 15.

THE IMPROVED **Welsbach** STREET LIGHTING FIXTURES furnish the
perfection of street lighting outfits. See advertisement, page XX.

Miles of mains, approximate, 0.5.
 Price gas, 1903: Light, per 1,000 c. f., \$15.
 Candle-power, 25.

Elgin Acetylene Gas Co., Elgin.

President, S. T. Jackson.
 Secretary, Wm. H. Campbell.
 Proc. manf., Acetylene; Monarch generator.
 Pop. dist. supplied, 500. No. meters, 35.
 Miles of mains, approximate, 2.5.
 Price gas, 1903: per 1,000 c. f., \$15.
 No. public lamps, 5.
 Consumption per burner per hour 0.5 to 1 c. f.

J. E. Noyes Co., Elmwood.

Capital stock, \$5,000.
 Superintendent and owner, J. E. Noyes.
 Proc. manf., acetylene; Monarch generator.
 No. meters, 58. Miles of mains, approx., 3.6.
 No. public lamps, 15.
 Price per 1,000 c. f., \$15.
 Consumption per burner per hour, 0.75 c. f.
 Price does not include repairs, care, lighting or extinguishing.
 No. hours lamp is lighted per year, 1,100.
 Annual output approximate, 112,000 c. f.
 Candle-power, 25 to 75.
 Lowest pressure for gas stoves, 3.3 in.
 Gas stoves in use, 2.
 Supplies Elmwood.

Greeley Heat and Light Co., Greeley.

Capital stock, \$5,000.
 President, J. R. Hanna.
 Secretary, J. H. Clough.
 Treasurer, E. J. Harrahill.
 Superintendent, John Harris.
 Process manufacture, Acetylene; Monarch generator.
 No. meters, 35.
 Miles of mains, approximate, 1.33.
 No. public lamps, 4.

Havelock Gas Co., Havelock.

Capital stock, 5,000.
 President, V. F. Hofman.
 Secretary, F. L. Sumpter.
 Treasurer, Fred. Kroekler.
 Superintendent, E. E. Shuler.
 Process manf., Acetylene; Davis generator.
 Pop. dist. supplied, 2,000. No. meters, 31.
 Miles of mains, approximate, 4.
 Price gas, 1903: Per 1,000 c.f., Light, gross \$15.
 Annual output approx., 150,000 c. f.

Acetylene Gas Plant, Monroe.

Capital stock, \$2,000.
 President, Ed. Golet.
 Secretary, Marshall McWilliams.
 Treasurer, W. G. Canard.
 Purchasing agents, McWilliams Bros.
 Process manufacture, Acetylene; Monarch generator.
 Miles of mains, approx., 3.
 No. public lamps, 105.

Acetylene Gas Plant, Nehawka.

(Owned by town.)
 Secretary, E. P. Sheldon.

Process manufacture, Acetylene; Monarch generator.

A. E. Lind and Son, Newman Grove.

Process manufacture, Acetylene; Monarch generator.
 No. meters, 15.
 Miles of mains, approximate, 0.5 mile.
 Price gas, 1903, per 1,000 c. f., \$15.
 Supplies Newman Grove.

Oakdale Heat and Light Co., Oakdale.

Capital stock, \$3,000.
 President, J. S. Stringfellow.
 Sec'y and pur. agent, Geo. F. Boyd.
 Treasurer, C. H. Torpin.
 Superintendent, J. S. Stringfellow.
 Proc. manf., Acetylene; Monarch generator.
 Pop. dist. supplied, 700. No. meters, 30.
 Miles of mains, approximate, 1.5.
 No. public lamps, 5.

Palmyra Gas Co., Palmyra.

President, Thomas W. Bell.
 Treasurer, H. J. Pegler.
 Process manufacture, Acetylene.
 Pop. dist. supplied, 400. No. meters, 16.
 Miles of mains, approximate, 2.
 Price gas, 1903: per 1,000 c. f., \$15.
 No. public lamps, 2.
 No. hours lamp is lighted per year, 1,800.

Petersburg Acetylene Gas Co., Petersburg.

Process manufacture, Acetylene; Monarch generator.
 Mains, approx., 1 mile.
 Price gas per 1,000 c. f., \$15.

Spalding Heat and Light Co., Spalding.

Capital stock, \$3,500.
 Manager, W. Spencer.
 Process manufacture, Acetylene; Monarch generator.
 Pop. dist. supplied, 500. No. Meters, 40.
 Miles of mains, approx., 1.5.
 Price gas, per 1,000 c. f., \$15.
 No. public lamps, 4.
 Supplies Spalding.

Stuart Acetylene Gas Co., Stuart.

Capital stock, auth., \$5,000; issued \$1,500.
 Annual div., 10 p. c.
 President, Wm. Krotter.
 Secretary, P. A. Bloomer.
 Treasurer, P. A. Bloomer.
 Purchasing agent, F. R. Stearns.
 Superintendent, J. C. Inglis.
 Process manufacture, Acetylene; Monarch generator.
 Pop. dist. supplied, 400. No. meters, 25.
 Miles of mains, approximate, 1 mile.
 Price gas, per 1,000 c. f., \$15.
 No. public lamps, 6; price per year, \$7.50.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 1,460.
 Annual output, approximate, 30,000 c. f.
 Supplies Stuart.

Extract from report of Brooklyn Parks :

"The **Welsbach** Lights are better adapted for Park Roads, being closer to the ground and free from shadows, and giving a clear, straight, white light." See advertisement, page xx.

Tilden Plumbing, Heating and Lighting Co., Tilden.

President, J. H. Thomas.
 Secretary and treas., E. P. Thomas.
 Pur. agent and supt., J. H. Thomas.
 Process manuf., Acetylene; Monarch generator.
 Pop. dist. supplied, 300. No. meters, 42.
 Miles of mains, approximate, 2.
 Price gas, 1903: per 1,000 c. f., \$15.
 No. public lamps, 3.
 Supplies Tilden.

The Acetylene Gas Plant, Weeping Water.

Proprietors, N. J. Calkin & Co.
 Process manufacture, Acetylene; Monarch generator.
 Miles of mains, approx., 1.5 mile.
 Price gas per 1,000 c. f., \$15.

NEW HAMPSHIRE.**Farmington Gas Light Co., Farmington.**

Capital stock, \$60,000.
 President, J. F. Cloutman.
 Secretary and treas., Charles W. Talpey.
 Purchasing agent, E. T. Willson.
 Superintendent, W. E. Fall.
 Process manufacture, Acetylene.
 Miles of mains, approximate, 5.
 Pop. dist. supplied, 2,000. No. meters, 50.
 No. public lamps, 38.
 Price does not include repairs, care, lighting and extinguishing.
 Annual output, approx., 300,000 c. f.
 Candle-power, 70.
 Price gas 1903, \$20 per 1,000 c. f.
 Supplies Farmington.

P. J. Abbott and Co., Wilton.

President, P. J. Abbott.
 Secretary, L. H. Baldwin.
 Process manufacture, Acetylene; Davis generator.
 No. meters, 13.

Winchester Gas Light Co., Winchester.

Capital stock, auth., \$5,000; issued, \$1,125.
 President, John P. Ball.
 Secretary, F. D. Lesure.
 Treasurer, James H. Bliss.
 Superintendent, John P. Ball.
 Process manufacture, Acetylene; J. B. Colt generator.
 Pop. dist. supplied, business section. No. meters, 19.
 Miles of mains, approximate, 0.25.
 Price gas, 1903: Light, gross & net \$15 per 1000.
 No. public lamps, 2.
 Annual output, approx., 40,000 c. f.

NEW JERSEY.**Marlton Light, Heat and Power Co., Marlton.**

Capital stock, \$10,000.
 President, Wm. J. Evans.
 Secretary, Wm. H. Zellej.
 Treasurer, Wm. Evans.

Process manufacture, Acetylene; Abner generator.
 Pop. dist. supplied, 500.

Penngrove Acetylene Gas Plant, Penngrove.
(Experimenting as yet.)**NEW YORK.****Altamont Illuminating Co., Altamont.**

Capital stock, \$5,000.
 President, Dr. Frederick Converse.
 Secretary, Edward C. Sturges.
 Treasurer, Emmett Myndens.
 Superintendent, M. A. Sand.
 Process manufacture, Acetylene; Monarch generator.
 Pop. dist. supplied, 800. No. meters, 30.
 Mains, approximate, 2,400 feet.
 Price gas, 1903: per 1,000 c. f., \$12.50.
 No. public lamps, 30. Price per year, \$12.95.
 Consumption per burner per hour, 0.5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 Supplies Altamont.

Amenia Acetylene Gas Co., Amenia.

Capital stock, \$5,000; annual div., 6 p. c.
 President, D. P. Barry.
 Treasurer, J. R. Thompson.
 Pur. agent and supt., J. R. Thompson.
 Process manuf., Acetylene; "Northlight B."
 Pop. dist. supplied, 600. No. meters, 36.
 Miles of mains, approximate, 1.25.
 Price gas, 1903: per 1,000 c. f., \$15.
 No. public lamps, 30. Price per year, \$14.
 Consumption per burner per hour, 0.5 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 1,040.

The Barker Lighting Co., Barker.

Owner, W. G. Sprague.
 Process of manuf., Acetylene, Eagle generator.
 No. meters in service, 24.
 Mains approx., 0.75 of a mile.
 Price gas 1,000 c. f.: Gross, \$15; net, \$13.50.
 Annual output, approx., 70,000 c. f.

Berkshire Gas Light Co., Berkshire.

Capital stock, \$1,000.
 President, D. P. Witter.
 Secretary and treas., F. A. Witter.
 Superintendent, F. A. Witter.
 Process manufacture, Acetylene; Davis generator.
 Pop. dist. supplied, 600. No. meters, 12.
 Mains, approximate, 12,000 feet.
 Price gas, 1903: per 1,000 c. f., \$15.
 No. public lamps, 12. Price per year, \$16.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted, per year, 880.
 Supplies Berkshire.

Canandaigua Acetylene Gas Plant, Canandaigua.

(Plant now under construction. To cost about \$20,000.)

THE **Welsbach** STREET LIGHT is a pure white light, unaffected by change of temperature, winds, or other natural disturbances. See advertisement, page xx.

Process of manufacture, Acetylene; Rush auto generator.
Population, 9,000.
Price of gas, per 1,000 c. f., \$15.

Eureka Gas Co., Candor.

Capital stock, \$4,000.
President, H. D. Heath.
Secretary and pur. agent, J. H. Dimon.
Treasurer, M. E. Willsey.
Superintendent, H. D. Heath.
Process manufacture, Acetylene; Eureka generator.
Pop. dist. supplied, 1,500. No. meters, 25.
Miles of mains, approximate, 5.
Price gas, 1903: per 1,000 c. f., \$15.
No. public lamps, 39. Price per year, \$14.
Price includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year: dark to midnight.

Owner F. W. Potter, Churchville.

Process manufacture, Acetylene; William-son, of Chicago, Ill.
Pop. dist. supplied, 500. No. meters, 25.
Miles of mains, approximate, 0.50.
Price gas, 1903: per 1,000 c. f., \$12.50.

Municipal Acetylene Gas Plant, Dryden.

(In course of construction.)
Process manufacture, Acetylene, Erk generator.

*Ellicottville Light, Heat and Power Co., Ellicottville. (No report.)

Endicott Gas Co., Endicott.

(Office Lestershire.)
Proprietor, S. B. Adams.
Process manufacture, Acetylene; Erk improved generator.
Pop. dist. supplied, 100. No. meters, 6.
Mile mains, approximate, 1.
Price gas, 1903: gross \$16; net \$15.
No. public lamps, 12. Price per year, \$12.
Consumption per burner per hour, 0.5 c. f.
Price includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 12 o'clock.
Lowest pressure for gas stoves, 2.75.
Supplies Endicott.

B. C. Gilbert Acetylene Gas Plant, Gilbertville.

(Supplies a few private parties.)

A. A. Slocum Acetylene Gas Plant, Locke.

Process manf., Acetylene; Rex generator.
Pop. dist. supplied, 300. No. meters, 24.
Miles of mains, approximate, 1.
Price gas, 1903: Light, per 1,000 c. f., \$12.50.
No. public lamps, 12. Price per year, \$18.
Consumption per burner per hour, 1 c. f.
Price includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 840.
Annual output, approx., 40,000 c. f.

* Reported as being in operation.

Millbrook Gas and Electric Co., Millbrook.

Capital stock, \$15,000.
President, A. E. Dieterich.
Secretary, Walter F. Haight.
Treasurer, Walter F. Haight.
Superintendent, James H. Murphy.
Process manufacture, Acetylene.
Pop. dist. supplied, 1,000. No. meters, 63.
Miles of mains, approximate, 10.5.
Price gas, 1903: Light, gross and net \$15 or 0.5c. per 16 candle-hours.
No. public lamps, 65.
Consumption per burner per hour, 0.5 c. f.
No. hours lamp is lighted per year, 2,700.
Candle-power, $\frac{1}{2}$ -c. f. burner, 25.

*Acetylene Gas Plant, Newark Valley. (No report.)

Nichols Gas Co., Nichols.

Capital stock, \$1,200.
President, S. C. Drake.
Secretary, H. A. Latham.
Treasurer, H. A. Latham.
Superintendent, A. B. Kirby.
Process manufacture, Acetylene; Erks generator.
Pop. dist. supplied, 500. No. meters, 37.
Mains, approximate, 0.75 mile.
Annual output, approx., 60,000 c. f.
Gas stoves in use, 2.
Supplies Nichols.

James Walton & Co., Phonicia.

(Company consists of James Walton and A. J. Simpson.)
Process manufacture, Acetylene; Gem generator.
Pop. dist. supplied, 300. No. meters, 8.
Mains, approximate, 0.75 mile.
Price gas, 1903: per 1,000 c. f., \$15.
No. public lamps, 8.
No. hours lamp is lighted per year, 800.
Annual output, approximate, 150,000 c. f.
Supplies Phonicia.

J. K. Rush Acetylene Generator Co., Port Byron.

Superintendent, L. S. Woodhouse.
Process manufacture, Acetylene; Rush generator.
No. meters, 13.
Mains, approximate, 1,000 feet.

Spencerport Acetylene Gas Plant, Spencerport.

(Owned by village.)
Value of plant, \$4,000.
Proc. manf., Acetylene, Columbia generator.
Pop. dist. supplied, 800. No. meters, 60.
Miles of mains, approximate, 3.75.
Price gas, 1903: Per 1,000 c. f., Light, net \$10.
No street lamps, 80.
Consumption per burner per hour, 0.5 c. f.
Price includes repairs, care, lighting and extinguishing.

Union Springs Gas Co., Union Springs.

Process manuf., Acetylene; Rex generator.
Mains, approx., 4,500 feet.
Price gas per 1,000 c. f., \$12.50.
No. consumers, 37.
Annual output, approx., 60,000 c. f.

WELSBACH STREET LIGHTING COMPANY OF AMERICA:

GENTLEMEN: I am pleased to add my recommendation to your system of street lighting. From my experience of street lighting, particularly in cities where the streets abound in shade trees, I have found it vastly superior to electric lighting, and believe that it is the proper way for lighting all streets. (Signed) HENRY S. KERNY, Commissioner. City of New York, Department of Public Buildings, Lighting and Supplies.

See advertisement, page xx.

Woodhull Gas Co., Woodhull.

Capital stock, \$800.
 President, C. W. Tubbs.
 Secretary and treas., R. C. Park.
 Purchasing agent, R. C. Park.
 Process manufacture, Acetylene; Northlight generator.
 Pop. dist. supplied, 600.
 No. meters, 13.
 Miles of mains, approximate, 0.5.
 Price gas, 1903: Light, per 1,000 c. f., net \$20.
 Annual output, approx., 2,400 c. f.

NORTH DAKOTA.**City Gas Works, Lisbon.**

(Owned by city.)
 Cost of plant, \$5,000.
 Chairman Gas Committee, T. C. Patterson.
 Process manuf., Acetylene.
 Pop. dist. supplied, 1,500. No. meters, 90.
 Miles of mains, approximate, 3.5.
 Price gas, 1903: Per 1,000 c. f., Light, \$15.
 No. public lamps, 33.
 Consumption per burner per hour, 1 c. f.
 Annual output, approx., 159,797 c. f.

**New Rockford Light and Water Improvement Co.
New Rockford.**

Capital stock, \$10,000.
 President, S. N. Putnam.
 Secretary, W. C. Droeser.
 Treasurer, D. Niven.
 Superintendent, W. O. Baird.
 Process manufacture, Acetylene.
 No. meters, 46.
 Mains, approximate, 12,000 feet.
 Price gas, 1903: per 1,000 c. f., \$20.
 Annual output, approximate, 150,000 c. f.
 Supplies New Rockford.

St. Thomas Acetylene Gas Plant, St. Thomas.

Capital stock, \$5,000.
 Purchasing agent, Thomas Calvin.
 Process manuf., Acetylene, Standard generator.
 Pop. dist. supplied, 1,000. No. meters, 51.
 Miles of mains, approximate, 1.5.
 Price gas 1903: per 1,000 c. f., \$20.
 No. public lamps, 13, free.
 Supplies St. Thomas.

OHIO.**Hill City Gas and Fuel Co., Centerville.**

Owner, E. J. Himes.
 Superintendent, John Hill.
 Process manufacture, Acetylene; Gem generator.
 Pop. dist. supplied, 500. No. meters, 38.
 Mains, approximate, 5,100 feet.
 Price gas, 1903: per 1,000 c. f., \$12.50.
 No. public lamps, 11. Price per year, \$25.
 Consumption per burner per hour, 1 c. f.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, \$1,500.

Proportion sold for fuel purposes, 1 p. c.
 Supplies Centerville.

Acetylene Gas Plant, Corwin.

(No report.)

Home Light and Fuel Co., New Carlisle.

Capital stock, \$15,000.
 President, S. A. Hoskins.
 Secretary, Harry G. Fisher.
 Superintendent, F. J. Maisen.
 Process manufacture, Acetylene; Abner generator.
 Pop. dist. supplied, 1,200. No. meters, 30.
 Miles of mains, approximate, 3.5.
 Price gas, 1903: per 1,000 c. f., \$15.
 No. public lamps, 40.
 Annual output, approximate, 150,000 c. f.

OKLAHOMA.**Edmond Gas Co., Edmond.**

Capital stock, \$5,000.
 President, O. N. Weiser.
 Secretary, L. G. Wahl.
 Treasurer, O. N. Weiser.
 Superintendent, L. V. Ford.
 Process manufacture, Acetylene; Eagle generator.
 No. meters, 55.
 Mains, approximate, 7,000 feet.
 Price gas, 1903: per 1,000 c. f., \$12.50.
 No. public lamps, 16. Price per year, \$18.
 Price does not include repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year: Moon-light scale.

PENNSYLVANIA.**Elizabethville Acetylene Gas Plant, Elizabethville.**

Process manufacture, Acetylene; Rex generator.
 Miles of mains, approximate, 3.75.
 Price gas per 1,000 c. f., \$15.

LeRaysville Light Co., LeRaysville.

Capital stock, \$1,400.
 President, J. P. Bosworth.
 Secretary, A. E. Woodruff.
 Treasurer, J. L. Haigh.
 Process manuf., Acetylene; Erk generator.
 No. meters, 12.
 Mains, approximate, 0.25 of a mile.

Milford Gas Co., Milford.

Capital stock, \$10,000; annual div., 4 p. c.
 President, Hy. B. Reed.
 Secretary, B. E. Brown.
 Treas. and supt., Thos. Armstrong.
 Process manuf., Acetylene, Troubetzkoy generator.
 Pop. dist. supplied, 1,000. No. meters, 35.
 Miles of mains, approximate, 5.
 Price gas, 1903: Per 1,000 c. f., gross \$20; net \$18.
 No. public lamps, 40. Price per year, \$14.
 Consumption per burner per hour, $\frac{1}{4}$ c. f.

THE Welsbach STREET LIGHT possesses great economy over any other method of street illumination. See advertisement, page xx.

Price includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 2,200.
Annual output, approx., 125,000 c. f.
Candle-power, $\frac{1}{2}$ -c. f. burner, 25.

Moscow Gas Co., Moscow.

President, H. L. Gaige.
Sec'y and treas., J. D. Callegan.
Purchasing agent, J. D. Callegan.
Process manufacture, Acetylene; 300 light Rex generator.
Population, 600. No. meters, 17.
Miles of mains, approximate, 0.5.
Price gas, 1903: Per 1,000 c. f., light, net \$12.50.
Annual output, approx., 34,325 c. f.

Quarryville Gas Plant, Quarryville.

Capital stock, \$3,500.
President, Hiram F. W. LeFevre.
Sec'y and treas., Hiram F. W. LeFevre.
Purchasing agent, Hiram F. W. LeFevre.
Superintendent, Hiram F. W. LeFevre.
Process manf., Acetylene; Abner Giant generator.
Pop. dist. supplied 640. No. meters, 34.
Miles of mains, approximate, 1.75.
Price of gas 1903: Per 1,000 c. f., Light, net \$18.
No. public lamps, 18. Price, \$27 per year.
Price includes repairs, care, lighting and extinguishing.
Lighting hours per lamp per annum, 2,200.
Annual output, approx., 112,000 c. f.
Candle-power, 25.
Lowest water column pressure, 2.8 in.
Gas stoves in use, 4.
Supplies Quarryville borough.

SOUTH DAKOTA.

F. V. Garlock Gas Plant, Custer City.

Owner, F. V. Garlock.
Process manufacture, Acetylene; Monarch generator.
Pop. dist. supplied, 100. No. meters, 11.
Miles of mains, approximate, 2.
Price gas, 1903, per 1,000 c. f., \$20.
No. public lamps, 3; price per year, \$20 per 1,000 c. f.
Consumption per burner, per hour, 1 c. f.
Price includes repairs, care, lighting and extinguishing.
Lighted moon scale.
Supplies Custer City.

Egan Gas Machine Co., Egan.

Capital stock, \$5,000.
President, J. J. R. Mock.
Sec'y and treas., John E. Mock, Jr.
Purchasing agent, W. G. Mock.
Superintendent, J. J. R. Mock.
Proc. manf., Acetylene, Perfection "Odorless" Automatic generator.
Pop. dist. supplied, 900. No. meters, 24.
Miles of mains, approximate, 1.5
Price gas, 1903: Light, net \$12.
No public lamps, 5. Price per year \$54.
Consumption per burner per hour, 1.5 c. f.

* Reported as being in operation.

Price includes lighting only.
No. hours lamp is lighted per night, 5 to 6.
Annual output, approx., 150,450 c. f.
Cities supplied, Egan.

*Acetylene Gas Plant, Jefferson.

(No report.)

J. J. Wagner, Gas Plant, Lesterville.

Capital invested, \$1,000.
Process manuf., Acetylene, Monarch generator.
No. meters, 7.
Mains, approximate, 500 feet.
Price gas, 1903, per 1,000 c. f., \$15.

TEXAS.

*Acetylene Gas Plant, Grand View.

(No report.)

Lancaster Gas Co., Lancaster.

President, C. A. Ewing.
Secretary and treasurer, M. E. Keough.
Purchasing agent, C. G. Finklea.
Superintendent, R. G. Moffett.
Process manufacture, Acetylene; Climax generator.
(Owned by New Process Manufacturing Co., Dallas. Manager, Chas. G. Finklea.)
Population, 2,500. No. meters, 25.
Miles of mains, approximate, 2.5.
Price gas, 1903: Per 1,000 c. f., \$15.
No. public lamps, 14.
Cooking stoves in use, 10.

Whitesboro Gas Co., Whitesboro.

Capital stock, \$3,000; annual div., 20 p. c.
President, H. J. Hughes.
Secretary, N. L. Carrel.
Treasurer and pur. agent, M. Dirry.
Superintendent, C. E. Rose.
Process manuf., Acetylene, Monarch generator.
Pop. dist. supplied, 2,000. No. meters, 65.
Miles of mains, approximate, 2.
Price gas per 1,000 c. f., \$15.
No. public lamps, 3.
No. hours lamp is lighted per year, 2,640.
Annual output, approx., 150,000 c. f.
Gas stoves in use, 1.
Supplies Whitesboro.

*Acetylene Gas Plant, Wortham.

(No report.)

VIRGINIA.

Battletown Gas Co., Berryville.

Capital stock, \$10,000.
President, Herbert B. Warde.
Secretary, Blackburn Smith.
Treasurer and pur. agent, Herbert B. Warde.
Superintendent, Walter Carlisle.
Process manuf., Acetylene, Storer generator.
Pop. dist. supplied, 936. No. meters, 30.
Miles of mains, approximate, 2.
Price gas 1903: Per 1,000 c. f., \$12.50.

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA can furnish lanterns and fixtures for every possible contingency that may occur. See advertisement, page xx.

No. public lamps, 36; Price per year, \$12.
Consumption per burner per hour, 0.75 c. f.
Price includes repairs, care, lighting and
extinguishing.
No. nights lamp is lighted per mo., 18; to
11 P. M.
Supplies Berryville.

R. Ross Campbell, Acetylene Plant, Elkton.

Superintendent, Carl E. Colomy.
Miles of mains, approximate, 3.25.

Fort Myer Acetylene Gas Plant, Fort Myer.

(U. S. Government plant.)

Process manuf., Acetylene; Williamson gen-
erator.

Pop. dist supplied, 600. No. meters, 20.

Miles of mains, approx, 3.5.

Burners in use, 1,086.

Price gas, per 1,000 c. f., \$9.

No. public lamps, 52.

Annual output approx., 730,000 c. f.

Supplies Fort Myer.

Luray Gas Co., Luray.

Capital stock, \$7,500.

President, James Fetzer.

Secretary, S. A. Walton.

Treasurer, S. A. Walton.

Superintendent, Frank E. Stover.

General mgr. and vice-pres., F. E. Stover.

Process manufacture, Acetylene; Stover gen-
erator.

Population, 1903, 3,000. No. meters, 70.

Miles of mains, approximate, 2.

Price gas, 1903: Per 1,000 c. f., Light, net \$15.

No. public lamps, 26.

Price, per 1,000 c. f., \$12.50.

Consumption per burner per hour, 1 c. f.

Lighting hours per lamp until 10 P. M.

Supplies Luray.

Manchester Light, Heat and Power Co., Manchester.

Capital stock, \$50,000.

Bonds, \$22,000; due 1930; interest, 5 p. c.

President, A. L. Adamson.

Secretary, Clarence Vaden.

Treasurer, George E. Gary.

Superintendent, Geo. Hall.

Process manufacture, Acetylene. William-
son generator.

Population dist. supplied, 1902, 10,000.

No. meters, 125.

Miles of mains, approximate, 9.

Price gas, 1903: Light, gross \$12.50.

WISCONSIN.

The Urban Construction Co., Deerfield.

Capital stock, \$10,000.

President, W. C. Heimbucher.

Secretary, L. M. Williams.

Treasurer, H. B. Fargo.

Purchasing agent, W. C. Heimbucher.

Superintendent, Albert Munson.

Process manuf., Acetylene; Monarch genera-
tor.

No. meters, 52.

Miles of mains, approximate, 4.5.

Price gas, 1903: per 1,000 c. f., \$15.

Contract includes repairs, care, lighting and
extinguishing.

No. public lamps, 12. Lighted, moon scale.

Gas stoves in use, 1.

Supplies Deerfield.

Milton Gas Co., Milton.

Capital stock, \$20,000.

President, G. Patterson.

Secretary, M. C. Whitford.

Pur. agent, W. C. Hembuecher, Chicago.

Superintendent, M. C. Whitford.

Process manuf., Acetylene; Monarch genera-
tor.

Pop. dist. supplied, 2,000. No. Meters, 165.

Miles of mains, approximate, 8.5.

Price gas per 1,000 c. f., \$15.

Supplies Milton and Milton Junction.

Palmyra Gas Co., Palmyra.

Capital stock, \$5,000; annual div., 5 p. c.

President, George Miller.

Secretary, Gertrude Lawless.

Treasurer, Mrs. Scherer.

Purchasing agent and supt., Otto Scherer.

Process manuf., Acetylene; Eagle generator.

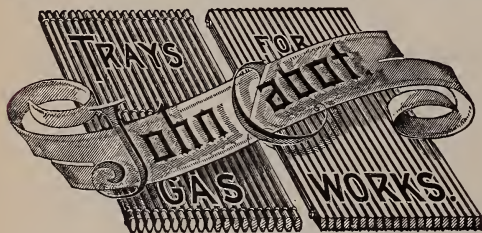
Pop. dist. supplied, 500. No. meters, 20.

Miles of mains, approximate, 1.75.

Price gas, 1903, per 1,000 c. f., \$15.

No. public lamps, 14.

PURIFIER and SCRUBBER TRAYS



1412 to 1416 Adams St., HOBOKEN, N. J.

SPECIAL TRAYS FOR IRON OXIDE

Write for Circulars and Estimates.

STORRS MICA CO.

Owego, N. Y.

MICA CHIMNEYS CANOPIES

Made from 1st Quality India Mica

Samples for Special Needs Furnished Free.

SOLD BY WELSBACH COMPANY

GASOLENE GAS PLANTS.

ILLINOIS.

Village of Ashton Gas Plant, Ashton.

(Owned by village.)
Bonds, \$6,700; due, 1906; interest, 4 p. c.
President, J. B. Farver.
Secretary, A. M. Bates.
Treasurer, N. A. Petrie.
Process manufacture, Gasoline.
Pop. dist. supplied, 1,000. No. meters, 37.
Miles of mains, approximate, 5.
Price gas, 1903: per 1,000 c. f., \$1.15.
No. public lamps, 45.
Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 7 oz.
Gas stoves in use, 6.
Supplies Village of Ashton.

Nauvoo Gas Light Co., Nauvoo.

Manager, J. W. Reimbold.
Process manufacture, Gasoline.
Pop. dist. supplied, 1,400.
Price gas, 1903: per 1,000 c. f., \$2.25.
Annual output, approximate, 2,000,000 c. f.
Candle-power, 20.
Proportion sold for fuel purposes, 20 p. c.
Supplies Nauvoo.

Neoga Improvement Co., Neoga.

Capital stock, \$12,000.
President, F. D. Varis.
Secretary and pur. agent, H. A. Aldrich.
Treasurer, D. N. Snyder.
Process manufacture, Gasoline.
Pop. dist. supplied, 1,300.
Miles of mains, approximate, 5.
Price gas 1903: per 1,000 c. f. Light, \$1.50.
Fuel \$1.
No. public Welsbach lamps, 27.

Shabbona Gas Plant, Shabbona.

(Municipal.)
Mayor, Wm. Van Velzor.
Process manufacture, Gasoline.
Population, 587.
Miles of mains, approx., 2.5.

Tiskilwa Gas Plant, Tiskilwa.

Manager, Geo. Kirkpatrick.
Process manufacture, Gasoline.
Population, 990.
Miles of mains, approximate, 3.5.

Warren Gas Light and Fuel Co., Warren.

Capital stock, \$10,000.
President, Henry Seise.
Secretary, Geo. E. Stickey.
Treasurer, Geo. L. DeHaven.
Purchasing agent, Geo. E. Stickey.
Process manufacture, Gasoline.

Pop. dist. supplied, 2,000. No. meters, 80.
Miles of mains, approximate, 3.5.
Price gas, 1903: per 1,000 c. f., \$1.50.
No. public Welsbach lamps, 61.
No. hours lamp is lighted per year, 1,080.
Annual output, approx., 3,084,000 c. f.
Proportion sold for fuel purposes, 5.
Gas stoves in use, 12.

IOWA.

Armstrong Light and Heating Co., Armstrong.

President, John L. Guest.
Secretary and pur. agent, John L. Guest.
Process manufacture, Gasoline.
Pop. dist. supplied, 1,200. No. meters, 24.
Mains, approx., 0.33 of a mile.
No. public Welsbach lamps, 21.
Contract does not include repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 2,190.

Auburn Gas Plant, Auburn.

Process manufacture, Gasoline.
Population, 293.
Miles of mains, approximate, 2.5.

Aurelia Gas Plant, Aurelia.

(Municipal.)
(In course of construction.)
City Clerk, A. W. Dice.
Miles of mains, approximate, 3.

Bancroft Gas and Power Co., Bancroft.

Capital stock, \$6,000.
President, J. B. Monsy.
Secretary, A. Mayer.
Treasurer, J. T. Sudmiur.
Superintendent, M. F. Schlitz.
Process manufacture, Gasoline.
No. meters, 50.
Miles of mains, approximate, 2.5.
Price gas, 1903: per 1,000 c. f., \$1.50.
No. public lamps, 17.
Gas stoves in use, 12.
Supplies Bancroft.

Brighton Gas Plant, Brighton.

(Municipal.)
Mayor, A. E. Auger.
Process manufacture, Gasoline.
Population, 807.
Miles of mains, approximate, 3.25.

Brooklyn Gas Plant, Brooklyn.

(Municipal.)
Mayor, A. E. Auger.
Process manufacture, Gasoline.
Population, 1,182.
Miles of mains, approximate, 4.

Welsbach Street Lighting Co. of America

Charter Oak Gas Plant, Charter Oak.

(Municipal.)
Process manufacture, Gasoline.
Population, 772.
Miles of mains, approximate, 3.5.

Delta Gas Plant, Delta.

Manager, W. N. Brown.
Process manufacture, Gasoline.
Population, 691.
Miles of mains, approximate, 3.5.

Dunlap Light, Heat and Power Co., Dunlap.

Capital stock, \$8,000.
President, S. J. Patterson.
Secretary, F. W. Curtis.
Treasurer, E. H. Barrett.
Process manufacture, Gasoline.
Pop. dist. supplied, 1,400. No. meters, 90.
Miles of mains, approximate, 4.5.
Price gas, 1903: per 1,000 c. f., \$1.50.
No. public lamps, 32. Price per mo., \$2.25.
Price includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, moon scale.
Candle-power, 70.
Proportion sold for fuel purposes, 10 p. c.
Lowest pressure for gas stoves, 4 oz.
Gas stoves in use, 14.
Supplies Dunlap.

Town of Durant Gas Plant, Durant.

(Owned by city.)
Capital stock, \$5,000.
Bonds, \$5,000; due, 1908; interest, 5 p. c.
Mayor, D. H. Snoko.
Secretary, F. C. Longfield.
Treasurer, E. Lantz.
Purchasing agent, F. C. Longfield.
Superintendent, E. Reimers.
Process manufacture, Gasoline.
Pop. dist. supplied, 600. No. meters, 35.
Miles of mains, approximate, 2.
Price gas, 1904: 90c.
No. public lamps, 28.
Consumption per burner, per hour, 6 c. f.
No. hours lamp is lighted per year, 480.
Annual output, approximate, 12,000,000 c. f.
Gas stoves in use, 12.

Dysart Gas Plant, Dysart.

(Municipal.)
Process manufacture, Gasoline.
Population, 902.
Miles of mains, approximate, 4.

E. E. Rowe Gas Light and Heating Co., Early.

Capital stock, \$10,000; annual div., 3 p. c.
President, E. C. Fuller.
Secretary, F. J. Kirwin.
Treasurer, D. D. Carlton.
Superintendent, A. P. Minnis.
Process manufacture, Gasoline.
Pop. dist. supplied, 550. No. meters, 42.
Miles of mains, approximate, 2.
Price gas per 1,000 c. f., \$1.75.
No. public Welsbach lamps, 15.
Lighted until 11 P. M.

Gas stoves in use, 10.
Supplies Early.

Gilmore Gas Co., Gilmore.

Capital stock, \$3,000.
President, C. L. Hatfield.
Secretary, C. B. Fitch.
Treasurer, R. H. Van Alstine.
Superintendent, Charles Stebbins.
Process manufacture, Gasoline.
No. meters, 50.
Mains approximate, 1 mile.
Price gas 1903: per 1,000 c. f., light, \$1.50; fuel, \$1.25.
No. public lamps, 12.
Gas stoves in use, 4.

Hedrick Gas Plant, Hedrick.

(Municipal.)
Process manufacture, Gasoline.
Population, 1,025.
Miles of mains, approximate, 3.25.

Lake View Gas Plant, Lake View.

Process manufacture, Gasoline.
Miles of mains, 2.

Mapleton Gas Co., Mapleton.

Capital stock, \$10,000, paid up, \$5,000.
President, W. H. Lathers.
Secretary, J. E. Scott.
Treasurer, J. E. Dusche.
Superintendent and manager R. M. Wilson.
Process manufacture, Gasoline.
Pop. dist. supplied, 1,500. No. meters, 50.
Miles of mains, approximate, 2.
No. public lamps, 26.
Supplies Mapleton.

Marathon Gas Light and Heating Co., Marathon.

Capital stock, \$5,000.
President, H. E. Swope.
Secretary, W. H. Doty.
Treasurer, W. W. Bennett.
Manager, W. H. Doty.
Process manufacture, Gasoline.
Pop. dist. supplied, 700. No. meters, 52.
Mains, approx., 1 mile.
Price gas, 1903, \$1.50.
No. public lamps, 12; price per year, \$24.
Consumption per burner, per hour, 10 c. f.
Price does not include repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 1,800.
Annual output, approximate, 1,500,000 c. f.
Candle-power, 70.
Gas stoves in use, 15.
Supplies Marathon.

Marcus Gas Plant, Marcus.

(Municipal.)
Process manufacture, Gasoline.
Population, 718.
Miles of mains, approximate, 4.5.

Mediapolis Municipal Gas Plant, Mediapolis.

Bonds, \$6,500; interest, 4 p. c.
Process manufacture, Gasoline.
Pop. dist. supplied, 800. No. meters, 83.

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA will furnish complete plants for the lighting of the streets of cities, the gas being furnished by the gas company. See advertisement, page xx.

Miles of mains, approximate, 4.
 Price gas, 1903, per 1,000 c. f., gross \$1.50; net \$1.35.
 No. public Welsbach lamps, 30.
 Annual output, approximate, 1,000,000 c. f.
 Proportion sold for fuel purposes, 10 p. c.
 Supplies Mediapolis.

Milton Gas Plant, Milton.

Mayor, J. T. Paxton.
 Process manufacture, Gasoline.
 Population, 849.
 Miles of mains, approximate, 4.

Monroe City Gas Co., Monroe.

(Municipal.)
 Capital stock, \$6,000.
 Bonds, \$6,000.
 Manager, D. J. Loveridge.
 Superintendent, Henry Hummel.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 1,000.
 Miles of mains, approximate, 4.5.
 Price gas, 1903, per 1,000 c. f., \$1.50.
 No. public lamps, 35.

Morning Sun Gas Plant, Morning Sun.

(Municipal.)
 Process manufacture, Gasoline.
 Population, 934.
 Miles of mains, approximate, 3.

Newell Gas Plant, Newell.

(Municipal.)
 Process manufacture, Gasoline.
 Population, 762.
 Miles of mains, approximate, 2.5.

Odebolt Lighting and Heating Co., Odebolt.

Capital stock, \$8,800.
 President, Joseph Mattes.
 Secretary, E. W. Lester.
 Treasurer, J. A. Reynolds.
 Purchasing agent, E. W. Lester.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 1,600. No. meters, 71.
 Price gas, 1903, \$1.75.
 No. public Welsbach lamps, 28.
 Consumption per burner, per hour, 7 c. f.
 Contract includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 12,000.
 Annual output, approx., 3,000,000 c. f.
 Candle-power, 70.
 Lowest pressure for gas stoves, 7 oz.
 Gas stoves in use, 15.
 Cities supplied, Odebolt.

The Gas Plant, Pleasantville.

(Municipal.)
 Process manufacture, Gasoline.
 Population, 738.
 Miles of mains, approximate, 4.

Pocahontas Heat, Light and Power Co., Pocahontas.

Process manufacture, Gasoline.
 Population, 625.
 Miles of mains, approximate, 4.

Pringhar Gas Co., Pringhar.

Capital stock, \$6,000.
 Secretary, O. H. Montzheimer.
 Treasurer and Pur. agent, Jos. Reynoldson.
 Process manufacture, Gasoline.
 No. meters, 70.
 Miles of mains, approximate, 4.
 Price gas, 1903, per 1,000 c. f., \$1.75.
 No. public lamps, 23.
 Price does not include repairs, care, lighting and extinguishing.
 Gas stoves in use, 15.

Radcliffe Gas Co., Radcliffe.

Capital stock, \$5,000.
 President, A. N. Drake.
 Secretary, R. B. Ballard.
 Treasurer, F. E. DeMarsha.
 Pur. agent and Supt., R. B. Ballard.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 800. No. meters, 45.
 Miles of mains, approximate, 2.5.
 Price gas, 1903, per 1,000 c. f., \$1.75.
 No. public Welsbach lamps, 22.
 Supplies Radcliffe.

Richland Gas Plant, Richland.

Process manufacture, Gasoline.
 Population, 534.
 Miles of mains, 3.5.

Riverside Gas Plant, Riverside.

(Municipal.)
 Process manufacture, gasoline.
 Population, 698.
 Miles of mains, approximate, 2.5.

Rockwell Gas Co., Rockwell.

Capital stock, \$4,800; annual div., 5 p. c.
 President, George E. Higley.
 Secretary and treasurer, W. B. Bruce.
 Purchasing agent, W. B. Bruce.
 Superintendent, J. L. Lakins.
 Process manufacture, Gasoline.
 No. meters, 62.
 Miles of mains, approximate, 1.25.
 Price gas, 1903, per 1,000 c. f., \$1.50.
 No. public lamps, 10.
 Consumption per burner, per hour, 6 c. f.
 Annual output, approximate, 1,000,000 c. f.
 Candle-power, 60.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 4 oz.
 Gas stoves in use, 17.
 Supplies Rockwell.

Rolfe Gas Co., Rolfe.

Capital stock, \$7,600; annual div., 4 p. c.
 President, C. M. Webb.
 Secretary, C. E. Fraser.
 Treasurer and pur. agent, C. E. Fraser.
 Superintendent, C. N. Harmon.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 1,200. No. meters, 95.
 Miles of mains, approximate, 3.5.
 Price gas, 1903: Light, \$1.75; Fuel, \$1.50.
 No. public Welsbach lamps, 26. Price per year, \$32.
 Consumption per burner per hour, 8 c. f.

"The metropolitan appearance of the lamp itself, together with the clear, white, steady, powerful light, put the **Welsbach** clear in the lead of anything on the market to-day for the purpose of street lighting."

(Signed) W. W. BINGHAM, President, City Council, Omaha.

See advertisement, page xx.

Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year: Moon-light schedule.
 Annual output, approximate, 1,750,000 c. f.
 Candle-power, 70.
 Proportion sold for fuel purposes, 25 p. c.
 Lowest pressure for gas stoves, 6 oz.
 Gas stoves in use, 20.
 Supplies Rolfe.

Schaller Gas Light and Fuel Co., Schaller.

Capital stock, \$5,000.
 President, G. F. Chandler.
 Secretary, J. T. Edson.
 Treasurer, S. Wells.
 Pur. agent and supt., A. H. Montgomery.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 700. No. meters, 52.
 Miles of mains, approximate, 3.
 Price gas, 1903: per 1,000 c. f., \$1.75.
 No. public lamps, 18. Price per year, \$24.
 Price includes repairs, care, lighting and extinguishing.
 No. hours lamp is lighted per year, 1,800.
 Candle-power, 80.
 Lowest pressure for gas stoves, 8 oz.
 Gas stoves in use, 17.
 Supplies Schaller.

City of Shelby Gas Plant, Shelby.

(Owned by city.)
 Bonds, \$5,000; due 1923; interest 5 p. c.
 Manager (Mayor), H. D. Reed.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 900. No. meters, 50.
 Miles of mains, approximate, 3.
 Price gas, 1903: per 1,000 c. f., \$1.50.
 No. public Welsbach lamps, 17.
 Consumption per burner per hour, 5 c. f.
 Gas stoves in use, 4.
 Supplies Shelby.

Sioux Center Gas Plant, Sioux Center.

(Owned by city.)
 Bonds, \$4,500; due 1913; interest, 5 p. c.
 Town Clerk, Neal Mount.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 1,000. No. meters, 32.
 Miles of mains, approximate, 2.5.
 Price gas, 1903: per 1,000 c. f., \$1.50.
 No. public Welsbach lamps, 24.
 Gas stoves in use, 6.
 Supplies Sioux Center.

Storm Lake Gas Plant, Storm Lake.

Manager, A. W. Unger.
 Population, 2,169.
 Miles of mains, approximate, 7.

Town of Wall Lake Gas Plant, Wall Lake.

Treasurer, Charles Goodnow.
 Manager, A. B. Barclay.
 Operator, A. P. Willhoite.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 500. No. meters, 25.
 Miles of mains, approximate, 2.5.
 No. public lamps, 18.
 Gas stoves in use, 3.
 Supplies Wall Lake.

Williamsburg Acetylene Gas Plant, Williamsburg.

(Owned by town.)
 Secretary (Mayor), Thos. R. Williams.
 Superintendent, B. F. Furmon.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 1,200. No. meters, 100.
 Miles of mains, approximate, 3.5.
 Price gas, per 1,000 c. f., \$1.10.
 No. public Welsbach lamps, 34. Lighted until 11 P. M.
 Annual output, approximate, 3,600,000 c. f.
 Proportion sold for fuel purposes, 50 p. c.
 Gas stoves in use, 50.
 Supplies Williamsburg.

Winfield Light Plant, Winfield.

(Municipal Plant.)
 Bonds, \$5,000; interest, 4 p. c.
 Manager, Joseph Hobart.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 1,000. No. meters, 100.
 Miles of mains, approximate, 2.5.
 No. public lamps, 32.
 Annual output, approximate, 2,250,000 c. f.
 Gas stoves in use, 20.

Woodbine Light and Heating Co., Woodbine.

Manager, Lewis Haas.
 Process manufacture, Gasoline.
 Population, 1,255.
 Miles of main, approximate, 4.5.

MINNESOTA.

Village of Amboy Gas Plant, Amboy.

Bonds, \$3,000; due 1905; interest, 6 p. c.
 President of Council, F. A. Cornell.
 Treasurer, O. B. Pederson.
 Recorder, Floyd E. Wilder.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 432. No. meters, 50.
 Miles of mains, approximate, 1.25.
 Price gas, 1903: \$1.25.
 No. public Welsbach lamps, 14.
 Annual output, approximate, 885,000 c. f.
 Gas stoves in use, 14.

Anoka Gas Co., Anoka.

Capital stock, pref., \$10,000; com., \$10,000.
 President, George R. Wilder.
 Secretary and treas., Henry Lee.
 Superintendent, Ford Kinney.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 5,000.
 Miles of mains, approximate, 5.
 Price gas, 1903: per 1,000 c. f., \$1.50.
 Supplies Anoka.

Bricelyn Gas Plant, Bricelyn.

(Municipal.)
 Process manufacture, Gasoline.
 Population, 577.

Canby Gas Plant, Canby.

(Municipal.)
 Process manufacture, Gasoline.
 Population, 1,100.
 Miles of mains, approximate, 4.

THE WELSBACH STREET LIGHT gives the highest candle power of light for the least money. See advertisement, page xx.

Cottonwood Gas Plant, Cottonwood.

Mayor, J. H. Cetlin.
Process manufacture, Gasoline.
Miles of mains, approximate, 3.

Village of Currie Gas Plant, Currie.

Capital stock, \$3,000.
Bonds, \$2,500; due 1909; interest, 6 p. c.
President, F. M. Meyers.
Secretary, C. H. Cooper.
Process manufacture, Gasoline.
Pop. dist. supplied, 500.
Price gas, 1903: per 1,000 c. f., \$1.50.
No. public lamps, 10.

Village of Dodge Center Gas Plant, Dodge Center.

(Municipal.)
Purchasing agent, P. R. Howe.
Superintendent, A. N. Rice.
Process manufacture, Gasoline.
Pop. dist. supplied, 1,100. No. meters, 75.
Miles of mains, approximate, 3.5.
Price gas, 1903: per 1,000 c. f., \$1.
No. public Welsbach lamps, 38.
Gas stoves in use, 12.

Municipal Gas Plant, Hayfield.

Village Recorder, Thomas Thomson.
Process manufacture, Gasoline.
Pop. dist. supplied, 600. No. meters, 38.
Miles of mains, approximate, 2.
Price gas, 1903: per 1,000 c. f., \$1.25.
No. public lamps, 20.
Gas stoves in use, 6.
Supplies Hayfield.

Village of Hector Gas Plant, Hector.

Bonds, \$6,000; due 1922; interest, 5 p. c.
President, Geo. T. Kessen.
Secretary, H. J. Corson.
Treasurer, S. O. Lunder.
Purchasing agent, Geo. M. Berry.
Superintendent, H. J. Corson.
Process manufacture, Gasoline.
Pop. dist. supplied, 700. No. meters, 33.
Miles of mains, approximate, 3.
Price gas, 1903: per 1,000 c. f., \$1.25.
No. public lamps, 24.

Heron Lake Gasoline Gas Plant, Heron Lake.

(Municipal. No report.)

Village of Lake Benton Gas Works, Lake Benton.

(Owned by Village.)
Bonds, \$4,000.
President, J. H. Hanson.
Secretary, O. K. Hafsas.
Treasurer, F. E. Tucker.
Purchasing agent, George Larson.
Superintendent, George Larson.
Process manufacture, Gasoline.
Pop. dist. supplied, 1,000. No. meters, 63.
Miles of mains, approximate, 5.
Price gas, 1903: per 1,000 c. f., \$1.25.
No. public Welsbach lamps, 30.
Contract includes repairs, care, lighting and extinguishing.
Lighted: Moon scale.
Gas stoves in use, 12.

Village of Lamberton Gas Plant, Lamberton.

Bonds, \$5,000; due 1912; interest, 5 p. c.
President, Hans Miller.
Secretary and pur. agent, George Grimm.
Treasurer, T. J. Dickson.
Trustees, Lewis Chester and John H. Roth.
Superintendent, Thos. Nelson.
Process manufacture, Gasoline.
Pop. dist. supplied, 1,000. No. meters, 63.
Miles of mains, approximate, 2.
Price gas, per 1,000 c. f., \$1.25.
No. public Welsbach lamps, 24.
Gas stoves in use, 15.

The Gas Plant, Lester Prairie.

Owners, Messrs. Weise and Kuhlmann.
Process manufacture, Gasoline.
Miles of mains, approximate, 1.5.

Village of Madelia Gas Plant, Madelia.

Bonds, \$5000; due \$1,000 annually; interest, 5 p. c.
President, C. O. Cooley.
Secretary, John K. Helling.
Treasurer, M. A. Dorret.
Purchasing agent, G. Jacobham.
Superintendent, Nick Peterson.
Process manufacture, Gasoline.
Pop. dist. supplied, 1,500. No. meters, 75.
Price gas, per 1,000 c. f., \$1.40.
No. public Welsbach lamps, 36.
Contract includes repairs, care, lighting and extinguishing.
No. hours lamp is lighted per year, 600.
Candle-power, 75.
Gas stoves in use, 7.
Supplies Madelia.

Monticello Gas Plant, Monticello.

(Owned by Village.)
Bonds, \$4,000; due 1912; interest, 4 p. c.
Village Recorder, W. J. Thompson.
Process manufacture, Gasoline.
Pop. dist. supplied, 1,000. No. meters, 48.
Miles of mains, approximate, 2.
Price gas, 1903: per 1,000 c. f., \$1.25.
No. public Welsbach lamps, 20.
Supplies Monticello.

The Gas Plant, Mountain Lake.

(Municipal.)
Process manufacture, Gasoline.
Population, 959.
Miles of mains, approximate, 3.

Truman Gas Plant, Truman.

(Municipal.)
Process manufacture, Gasoline.
Miles of mains, approximate, 2.

NEBRASKA.

Albion Gas Co., Albion.

Capital stock, \$10,000.
President, John Peters.
Secretary, Frank Doten.
Treasurer, F. S. Thompson.
Pur. agent and manager, H. L. Brooks.

Owing to the shape of the Welsbach Mantle, the illumination of the street from an IMPROVED **Welsbach** STREET LIGHT is equal in every direction. This is not the case with other methods of lighting. See advertisement, page xx.

Process manufacture, Gasoline.
 Pop. dist. supplied, 1,500. No. meters, 68.
 Miles of mains, approximate, 3.
 Price gas, 1903: Per 1,000 c. f., \$1.50.
 Annual output, approx., 1,500,000 c. f.
 Proportion sold for fuel purposes, 50 p. c.
 Gas stoves in use, 30.
 Supplies Albion.

The Gas Plant, Central City.

Process manufacture, Gasoline.
 Population, 1,571.
 Miles of mains, approximate, 4.5.

The Gas Plant, Hartington.

(Municipal.)
 Manager, A. B. Gable.
 Process manufacture, Gasoline.
 Population, 971.
 Miles of mains, approximate, 3.

Norfolk Light and Fuel Co., Norfolk.

Process manufacture, Gasoline.
 Population, 3,883.
 Miles of mains, approximate, 11.

The Gas Plant, Northbend.

Process manufacture, Gasoline.
 Population, 897.

Ord Light and Fuel Co., Ord.

Capital stock, \$20,000.
 President, P. Martensen.
 Secretary, C. E. Goodhand.
 Treas. and pur. agent, R. Sorensen.
 Superintendent, R. Sorensen.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 1,600. No. meters, 75.
 Miles of mains, approximate, 4.
 Price gas, 1903: Gross, \$2; net, \$1.90
 No. Public lamps, 25. Price per year, \$24.
 Consumption per burner per hr., 6 c. f.
 Price does not include repairs, care, lighting
 and extinguishing.
 No. hours lamp is lighted per year till mid-
 night.
 Annual output, approximate, 1,200,000 c. f.
 Gas stoves in use, 14.
 Cities supplied, Ord.

Village Heat and Light Plant, Syracuse.

Bonds, \$5,000; Interest, 5 p. c.
 President, E. R. Haas.
 Secretary, D. P. West.
 Treasurer, James Fairchild.
 Purchasing agent, A. C. Stover.
 Superintendent, Sidney A. Lockhart.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 890. No. meters, 46.
 Miles of mains, approximate, 3.5.
 Price gas, per 1,000 c. f., \$1.50.
 No. Public Welsbach lamps, 31.
 Consumption per burner, per hour, 8 c. f.
 No. hours lamp is lighted per year, 1,200.
 Annual output, approximate, 790,000 c. f.
 Proportion sold for fuel purposes, 10 p. c.
 Gas stoves in use, 7.
 Supplies Syracuse.

NEW YORK.

Afton Gas Light Co., Afton.

Capital stock, \$2,000.
 President, G. A. Haven.
 Secretary and treas., Mrs. R. G. Falls.
 Purchasing agent, R. G. Falls.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 900. No. meters, 34.
 Miles of mains, approximate, 2.
 Gas stoves in use, 2.

Canaseraga Gas Co., Canaseraga.

Capital stock, \$2,500.
 Owner, Wm. C. Windsor.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 600. No. meters, 40.
 Miles of mains, approximate, 1.5.
 Price gas 1903: Per 1,000 c. f., \$2.
 Annual output, approximate, 500,000 c. f.
 Supplies Canaseraga.

Candor Gas Plant, Candor.

(Small plant supplying few private parties.)
 Process manufacture, Gasoline.
 Mains approximate, 1 mile.

Cincinnati Gas Co., Cincinnati.

Capital stock, \$2,000; annual div., 10 p. c.
 President, P. C. Wheeler.
 Secretary, M. L. Holbert.
 Treasurer, M. L. Holbert.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 200. No. meters, 30.
 Miles of mains, approximate, 0.5.
 Price gas 1903: Per 1,000 c. f., gross \$2; net \$1.90.
 Annual output approximate, 400,000 c. f.
 Gas stoves in use, 3.
 Supplies Cincinnati.

The Gas Plant, De Ruyter.

Process manufacture, Gasoline.
 Population, 623.
 Miles of mains, approximate, 2.

The Gas Plant, East Hampton.

Process manufacture, Gasoline.
 Population, 1,000.

D. A. Parker & Co., Edmeston.

Process manufacture, Gasoline; 150 lights
 capac.
 Price gas per 1,000 c. f., \$2. No. meters, 6.
 Supplies Edmeston.

Hancock Gas Plant, Hancock.

(Private plant.)

The Gas Plant, Milford.

Process manufacture, Gasoline.
 Population, 2,051.
 Miles of mains, approximate, 3.

The Gas Plant, Morris.

Process manufacture, Gasoline.
 Population, 553.
 Mains, approximate, 1 mil e.

Have you seen **THE WELSBACH SYSTEM OF STREET LIGHTING** in operation? We invite examination and comparison. See advertisement, page XX.

Otego Lighting Co., Otego.

Capital stock, \$2,500.
 President, V. S. Fuller.
 Secretary, B. Cook Broadfoot.
 Treas. and pur. agent, Chas. H. Broadfoot.
 Superintendent, V. S. Fuller.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 300. No. meters, 25.
 Mains approximate, 1 mile.
 Price gas, 1903; per 1,000 c. f., \$2.
 No. Public lamps, 1.
 Gas stoves in use, 1.
 Supplies Otego.

Commercial Gas Light Co., Oxford.

Capital stock, \$2,000.
 President, Frank T. Corbin.
 Treasurer, A. S. Burchard.
 Process manufacture, Gasoline.
 Population, 1,931. No. meters, 35.
 Mains approximate, 1 mile.

The Gas Plant, Roxbury.

(No report.)

The Gas Plant, Sherburne.

Process manufacture, Gasoline.
 Population, 899.
 Miles of mains, approximate, 2.

The Gas Plant, South New Berlin.

Process manufacture, Gasoline.
 Population, 400.
 Miles of mains, approximate, 2.

Merchants Gas Co., South Otselic.

Capital stock, \$1,150.
 President, E. J. Stack.
 Secretary, Frank E. Cox.
 Treasurer, W. J. Wildman.
 Purchasing agent, Frank E. Cox.
 Superintendent, Frank E. Cox.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 300. No. meters, 20.
 Miles of mains, approximate, 2.
 Price gas 1903; Per 1,000 c. f., \$1.75.
 No. Public lamps, 200.
 Gas stoves in use, 6.

The Gas Company, West Winfield.

Process manufacture, Gasoline.
 Population, 771.
 Miles of mains, approximate, 2.

SOUTH DAKOTA.**Citizens Gas and Telephone Co., Clear Lake.**

Capital stock, \$10,000.
 President, E. P. St. John.
 Secretary and pur. agent, T. E. Sanborn.
 Treasurer, J. E. Walreth.
 Superintendent, Walter Nevill.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 800.
 Miles of mains, approximate, 4.
 Price gas, 1903; \$2.
 No. Public lamps, 21. Price per year, \$27.

Annual output, approximate, 1,095,350 c. f.
 Supplies Clear Lake.

The Gas Plant, Elk Point.

(Municipal.)
 Process manufacture, Gasoline.
 Population, 1,081.
 Miles of mains, approximate, 2.5.

The Gas Plant, Flandreau.

(Municipal.)
 City Clerk, E. G. Coleman.
 Process manufacture, Gasoline.
 Population, 569.

WISCONSIN.**Altoona Gas Plant, Altoona.**

Process manufacture, Gasoline.
 Miles of mains, approximate, 3.

Beaver Dam Gas Co., Beaver Dam.

Capital stock, \$50,000.
 Bonds, \$20,000; due 1904 to 1923; int. 6 p. c.
 President, Donald Rankin.
 Secretary, J. A. Woodbury.
 Treasurer, Donald Rankin.
 Process manufacture, Gasoline.
 Miles of mains, approximate, 6.
 Price gas, 1903; Per 1,000 c. f., \$1.10.

Cambria Gas Co., Cambria.

(Municipal.)
 Capital stock, \$6,000.
 Superintendent, D. R. Price.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 600. No. meters, 20.
 Miles of mains, approximate, 2.
 Price gas 1903; per 1,000 c. f., \$1.50.
 No. Public Welsbach lamps, 27.
 Supplies Cambria.

Clinton Gas and Water Works, Clinton.

(Municipal.)
 Bonds, \$5,500; due 1910; interest, 6 p. c.
 President, A. W. Strong.
 Purchasing agent, Geo. Giles.
 Superintendent, Geo. Giles.
 Process manufacture, Gasoline.
 Pop. dist. supplied, 1,000. No. meters, 68.
 Miles of mains, approximate, 3.
 Price gas, 1903; Per 1,000 c. f., \$1.25.
 No. Public Welsbach lamps, 24.
 No. hours lamp is lighted per year, 1,200.
 Annual output, approximate, 1,500,000 c. f.
 Proportion sold for fuel purposes, 20 p. c.
 Lowest pressure for gas stoves, 2.5 in.
 Gas stoves in use, 16.
 Supplies Clinton.

Fox Lake Gas Plant, Fox Lake.

Manager, Henry Dickson.
 Process manufacture, Gasoline.
 Miles of mains, approximate, 4.

Hammond Gas Plant, Hammond.

(Municipal.)
 Process manufacture, Gasoline.
 Miles of mains, approximate, 2.5.

Beware of infringements and imitations. THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA is the sole proprietor of THE WELSBACH SYSTEM OF STREET LIGHTING. See advertisement, page xx.

Horicon Municipal Gas Plant, Horicon.

Capital stock, \$10,000.
 Mayor, John Bodden.
 Process manufacture, Gasoline.
 No. meters, 35.
 Miles of mains, approximate, 5.5.
 Price gas 1903: Light, gross \$1.50; net \$1.
 No. Public lamps, 60.
 Supplies Horicon.

Marion Gas Plant, Marion.

Process manufacture, Gasoline.
 Miles of mains, approximate, 5.

The Gas Plant, Junea.

(Municipal. No report.)
 Manager, J. A. Malone.

1874-1904.

GLOBE GAS LIGHT COMPANY**Contractors for Street Lighting**

(Organized under the Laws of Mass.)

Mantle System for Gas and Gasoline

We will Sell or Lease our Lamps.

Correspondence Solicited from Gas Companies and others interested in Street and Park Lighting.

*Send for Catalog.***GLOBE GAS LIGHT CO., Boston, Mass.**

77 and 79 Union Street.

**Village Gas Plants
from 200 Lights Up**

*Send for a List of Incorporated Gas Companies
 Using Our Machines.*

GILBERT & BARKER MFG. CO.

**82 John Street
 NEW YORK**

THE KNOTT**Jet Photometer****PRICE, \$10.00**

THIS useful instrument is constructed upon the principle which states that the height of a jet flame increases with the enrichment of the gas. Pressure is kept uniform by an attached governor, and the colored glass chimmey is so graduated that the candle-power can be read off instantly. It is in almost universal use in American gas works and is indispensable where the enrichment of the gas varies or the candle-power must be kept up to a fixed standard.

In Ordering Specify the Kind of Gas this Photometer is to be used with

Coal-gas	up to 20 c. p.	} 1/2 Water-gas	}	up to 24 c. p.
Water-gas	up to 26 c. p.				} 1/2 Coal-gas
Oil-gas	up to 60 c. p.	} 1/4 Water-gas	}	up to 22 c. p.
Oil- and Air-Gas	up to 30 c. p.				} 3/4 Coal-gas

FOR SALE BY**Progressive Age Publishing Co., 280 Broadway, N. Y. City**

PARENT OR OPERATING COMPANIES.

CALIFORNIA.

Associated Gas Companies, Los Angeles.

Auditor, Calvert A. Phillips.
Purchasing agent, Calvert A. Phillips.

COMPANIES OPERATED.

Riverside (Calif.) Light and Fuel Co.
Pomona (Calif.) and Ontario Light and Fuel Co.
Whittier (Calif.) Light and Fuel Co.

California Coke and Gas Co., Pasadena.

Capital stock, \$1,000,000.
President, C. W. Dobbins.
Vice-president, Thaddeus Lowe.
Sect'y and treas., F. D. Lowe.
General Manager, Thaddeus Lowe.

COMPANIES OPERATED.

Long Beach (Cal.) Gas Co.
Valley Gas Co., Pasadena, Cal.

California Central Gas and Electric Co., San Francisco

Office, Hayward Building.
Capital stock, authorised, \$1,500,000; issued, \$1,500,000.
Bonds, \$1,000,000; due 1931; interest, 5 p. c.
President, John Martin.
Vice-president, John A. Britton.
Secretary, C. W. Conlisk.
Treasurer, R. M. Hotaling.
Purchasing agent, E. J. de Sabla, jr.
Chief engineer, E. C. Jones.
Electrical engineer, F. G. Baum.
Sales of gas and electricity for light, heat and power.

COMPANIES OPERATED.

Chico Gas and Electric Co., Chico.
Marysville Gas and Electric Co., Marysville.
Woodland Gas and Electric Co., Woodland.
Nevada County Gas and Electric Co., Grass Valley.
Nevada County Gas and Electric Co., Nevada City.
Colusa Gas and Electric Co., Colusa.
Napa Gas and Electric Co., Napa.
Petaluma Gas and Electric Co., Petaluma.
San Rafael Gas and Electric Light Co., San Rafael.
Santa Rosa Lighting Co., Santa Rosa.

The California Gas and Electric Corporation, San Francisco.

Capital stock, authorized, \$15,000,000; issued, \$10,000,000.
Bonds issued, \$8,000,000; due 1933; int. 5 p. c.; authorized, \$10,000,000.
President, E. J. de Sabla, Jr.
Vice-presidents, John Martin and J. C. Coleman.
Treasurer, R. M. Hotaling.

Secretary, C. W. Conlisk.

General manager, John A. Britton.

Operators and owners of electric power generating and transmission plants, street railroads, municipal and commercial electric lighting and distributing systems, gas generating plants and gas distributing systems.

COMPANIES OPERATED.

Bay Counties Power Co.
Valley Counties Power Co.
California Central Gas and Electric Co., San Francisco.
Fresno Gas and Electric Co., Fresno.
Oakland Gas Light and Heat Co., Oakland.
Sacramento Electric, Gas and Railway Co., Sacramento.
These companies now do business in fifteen counties in the state of California, which have a population of 414,000, and supply gas and electricity to cities within these counties.

United Gas Construction Co., San Francisco.

Office, 137 Montgomery Street.
Capital stock, preferred \$260,000; common \$740,000.
President, John G. Whitson.
Vice-president, R. J. Doherty.
Secretary, Alex. Harris.
Purchasing agent, John G. Whitson.
Superintendent, Geo. Pardee.
Owners of hydrocarbon water-gas process.
Operating and constructing gas-works in territories where suitable crude oil can be obtained.

COMPANIES OPERATED.

Watsonville Gas Co., Watsonville.
Corona Gas and Electric Co., Corona.
Hanford Light and Fuel Co., Hanford.
Pajaro Valley Water Co.

COLORADO.

United States Light and Traction Co., Denver.

Capital stock, \$100,000.
Bonds, \$470,000; due, 1933; interest, 5 p. c.
President, W. S. Iliff.
Vice-president, Charles K. Durbin.
Treasurer, O. D. Moore.
General manager, Charles K. Durbin.
Operate gas, electric and power plants.

COMPANIES OPERATED.

Albuquerque (N. M.) Gas, Electric Light and Power Co.
Tucson (Ariz.) Gas, Electric Light and Power Co.
Sheridan (Wyom.) Electric Light and Power Co.
Rawlins (Wyom.) Electric Light and Fuel Co.

THE **Welsbach** SYSTEM OF STREET LIGHTING is employed in the following cities: New York City, Philadelphia, Pa., Freehold, N. J., East Orange, N. J., New Haven, Conn., Brookline, Mass., Cambridge, Mass., New Rochelle, N. Y., Omaha, Neb., Springfield, O., Boston, Mass., New Bedford, Mass., Bridgeport, Conn., Dayton, O., Pensacola, Fla., St. Louis, Mo., Providence, R. I., San Francisco, Cal., Yonkers, N. Y., Milwaukee, Wis., Portland, Me., and various other cities. See advertisement, page xx.

ILLINOIS.

National Gas and Water Co., Chicago.

Office, 184 La Salle Street.
 Capital stock, issued, \$50,000.
 President and treasurer, Irwin Rew.
 Vice-president, A. H. Gross.
 Secretary and engineer, E. E. Morrell.
 Purchasing agent, E. E. Morrell.
 Builders and operators of gas-works.

COMPANIES OPERATED.

Austin Gas Co., Austin, Tex.
 DeKalb County Gas Co., DeKalb, Ill.
 Sterling Gas and Electric Light Co., Sterling.

Union Carbide Co., New York and Chicago.

Offices, 45 Broadway, N. Y., and 157 Michigan Avenue, Chicago.

(Works at Sault Ste. Marie, Mich., and Niagara Falls, N. Y.)

Capital stock, common, issued, \$6,000,000.
 Bonds, \$6,000,000; due 1940; interest 6 p. c.
 President, Geo. O. Knapp.
 Vice-presidents, A. B. Proal and W. P. Martin.
 Secretary, W. P. Martin.
 Treasurer, A. B. Proal.
 Asst. secretary, H. F. Southard.
 Asst. treasurer, E. J. E. Ward.
 General manager, W. P. Martin.
 Superintendent, E. F. Price.
 Manufacturers of calcium carbide.

Western Gas and Investment Co., Chicago.

Capital stock, pref. (unissued), \$500,000; com. (issued) \$500,000.
 President, John H. Brown.
 Vice-president, R. S. Fuertado.
 Secretary and treasurer, Geo. Mayer.
 Pur. agent and Gen'l mgr., John H. Brown.
 Gen'l superintendent, R. S. Fuertado.
 Asst. Gen'l Supt. A. D. Hopper.
 Purchase and control gas companies.

Practical Gas Construction Co., North Chicago, Ill.

Capital stock, \$150,000.
 President, G. W. Alt.
 Vice-president, E. C. Ferguson.
 Secretary and treas., J. A. Bower.
 Purchasing agent, W. S. Darley.
 General manager, J. A. Bower.
 Superintendent, W. S. Darley.
 Own, operate and install gasoline and oil-gas plants.

IOWA.

Jones and Hovey Co., Independence.

(Not incorporated.)
 President, C. D. Jones.
 Secretary, S. B. Hovey.
 A construction and operating company of gas and electric plants. Operations confined principally to the state of Iowa.

COMPANIES OPERATED.

Independence Gas Co., Independence.
 Red Oak Gas Light Co., Red Oak.
 Atlantic Gas Light Co., Atlantic.

Marshalltown Light, Power and Railway Co., Marshalltown.
 Fairfield Gas and Electric Co., Fairfield.
 Creston Gas and Electric Co., Creston.
 Peoples Gas and Electric Co., Chillicothe, Mo.

MARYLAND.

Railways and Light Co. of America, Baltimore.

Office, Continental Trust Building.
 Capital stock, authorised, \$25,000,000; issued, \$300,000.
 President, J. W. Middendorf.
 Vice-president, R. Lancaster Williams.
 Secretary, Howard P. Page.
 Treasurer, A. H. Rutherford.
 Purchasing agent, B. Williams.
 General manager, E. L. Bemiss.
 Build, operate and finance railway, electric light, water, gas and ice properties.

COMPANIES OPERATED.

Knoxville Traction Co., Knoxville, Tenn.
 Lexington Railway Co., Lexington, Ky.
 Macon Railway and Light Co., Macon, Ga.
 Augusta Railway & Electric Co., Augusta, Ga.
 Augusta & Aiken Railway Co., Augusta, Ga.

MASSACHUSETTS.

Massachusetts Lighting Companies, Boston.

131 State Street.
 Share capital, \$400,000; Annual div., 4 p. c.
 President, Arthur E. Childs.
 Treasurer, George F. Howland.
 Purchasing agent, Alfred Clarke.
 General manager, Alfred Clarke.
 Voluntary association for owning and operating gas and electric companies.

COMPANIES OPERATED.

Clinton (Mass.) Gas Light Co.
 Milford (Mass.) Electric Light and Power Co.
 Spencer (Mass.) Gas Co.
 Worcester County Gas Co. Warren, Brookfield and Palmer, Mass.

State Board of Gas and Electric Light Commissioners, Boston.

Office, Rooms 144, 145, 146 State House.
 Forrest E. Barker, chairman.
 Morris Schaff.
 Samuel W. George.
 R. G. Tobey, clerk.
 Meetings are not held regularly, but the clerk and one or more members are at the office every day.

The Light, Heat and Power Corporation, Boston.

(Company reorganised, and now doing general business of contractors and dealers in gas and electric supplies. Portion of assets taken over by Massachusetts Lighting Companies. See Boston.)

The Massachusetts Gas Companies, Boston.

Capital stock, preferred, \$25,000,000; com., \$25,000,000.
 President, C. Minot Weld.

THE **Welsbach** SYSTEM distributes the light over all portions of the area illuminated. See advertisement, page xx.

Secretary, Frederick Tudor.
 Treasurer, Wallace S. Draper.
 General manager, Robert M. Burnett.
 A voluntary association owning practically
 all the capital stock of the following
 subsidiary companies:
 New England Gas and Coke Co.
 Brookline Gas Light Co.
 Dorchester Gas Light Co.
 Jamaica Plain Gas Light Co.
 Massachusetts Pipe Line Gas Co.
 Boston Gas Co.
 Bay State Gas Co., of Mass.
 Roxbury Gas Light Co.
 South Boston Gas Light Co.

The Massachusetts Pipe Line Gas Co., Boston.

Capital stock, \$1,000,000.
 Total debt (to the Massachusetts Gas Co.)
 \$1,125,000.
 President, Charles A. Stone.
 Vice-president, John T. Burnett.
 Secretary and treasurer, Frederick Tudor.
 Purchasing agent, Edward Page.
 General manager, George H. Finn.
 Miles of mains, 18; connecting the following
 gas companies: Brookline, Dorchester,
 Boston, Chelsea, Charlestown, Jamaica
 Plain, Dedham and Hyde Park and prac-
 tically connecting Bay State, South
 Boston, Cambridge and Roxbury Gas
 Companies.

NEW JERSEY.

American Light and Traction Co., Jersey City.

Office, 243 Washington Street.
 Capital stock. Authorised, pref. \$25,000,000;
 com. \$15,000,000. Issued, pref. \$9,396,900;
 annual div., 6 p. c.; com. \$4,678,700.
 President, Emerson McMillin.
 Vice-presidents, Philip Lehman and Willard
 E. Case.
 Secretary and treasurer, Sheldon J. Glass.
 Asst. Secretary, A. Lincoln Elinton.
 Asst. Treasurer, A. H. Ostrom.
 General manager, Henry L. Doherty.
 A holding company.

COMPANIES OPERATED.

Western Gas Co., Milwaukee, Wis.
 Binghamton Gas works, Binghamton, N. Y.
 Grand Rapids Gas Light Co., Grand Rapids,
 Mich.
 Southern Light and Traction Co., San An-
 tonio, Tex.
 St. Paul Gas Light Co., St. Paul, Minn.
 Madison Gas and Electric Co., Madison, Wis.
 St. Joseph Gas Co., St. Joseph, Mo.
 Consolidated Gas Co. of New Jersey.

Public Service Corporation of New Jersey, Newark.

President, T. N. McCarter.
 1st Vice-president, Randal Morgan.
 2d Vice-president, A. R. Kuser.
 3d Vice-president, A. B. Carlton.
 4th Vice-president, J. J. Burleigh.
 Secretary, Frederick Evans.
 Treasurer, James P. Dusenberry.
 Comptroller, P. S. Young.
 General mgr. gas dep't, H. D. Whitcomb, Jr.

Purchasing agent, J. A. Pearson.
 Supt. of supplies, A. D. Ball.

COMPANIES OPERATED UNDER LEASE.

Essex & Hudson Gas Co.
 Hudson County Gas Co.
 The Paterson & Passaic Gas and Electric Co.
 South Jersey Gas, Electric and Traction Co.
 Somerset, Union and Middlesex Lighting Co.
 Also controls electric lighting in the various
 municipalities.

NEW YORK.

Empire Coke Co., Geneva.

Capital stock, \$1,000,000.
 President, E. H. Palmer.
 Treasurer, Charles J. Root.

COMPANIES OPERATED.

Seneca Falls (N. Y.) and Waterloo Gas Co.
 Auburn (N. Y.) Gas Co.
 Geneva (N. Y.) Gas Co.

Associated Gas, Electric and Water Co., Ithaca.

President, William T. Morris.
 Secretary, Thomas W. Summers.
 Treasurer, William T. Morris.
 Supt. of works, Chas. A. Schwarn.
 General manager, Thomas W. Summers.
 Owns and operates gas, electric and water
 properties.

COMPANIES OPERATED.

Penn Yan Gas Light Co., Penn Yan, N. Y.
 Hornell Gas Light Co., Hornellsville, N. Y.
 Canisteo Gas Co., Canisteo, N. Y.
 Van Wert Gas Light Co., Van Wert, Ohio.
 Homer (N. Y.) and Cortland Gas Light Co.
 Newark Gas, Light and Fuel Co., Newark, N. Y.
 Owego Gas Light Co., Owego, N. Y.
 Niagara Falls (N. Y.) Gas & Electric Light Co.
 Niagara Falls Gas Co., Limited, Ontario.
 Ithaca Gas Light Co., Ithaca, N. Y.
 Ithaca Water Works Co., Ithaca, N. Y.
 Ithaca (N. Y.) Electric Light and Power Co.
 Greenville Gas Light Co., Greenville, O.

Ohio and Indiana Consolidated Natural and Illumina- ting Gas Co., New York.

General office, 45 Broadway.
 Capital stock, auth., \$10,000,000; issued,
 \$9,000,000.
 Bonds outstanding, \$1,940,000; due 1926; int.
 6 p. c.
 President, C. F. Dieterich.
 Vice-president, J. Bertschmann.
 Treasurer, A. B. Proal.
 Manager and pur. agent, S. T. Murdock.
 Controls the following natural gas com-
 panies:

Fort Wayne Gas Co., supplying Ft. Wayne,
 Decatur, Buffton and Anderson.
 Indiana Natural and Illuminating Gas Co.
 supplying Frankfort, Crawfordsville,
 Lebanon, Thornton and Darlington.
 Lafayette Gas Co., supplying Lafayette.
 Logansport and Wabash Valley Gas Co.,
 supplying Logansport, Wabash and Peru.
 Ohio and Indiana Gas Co., supplying St.
 Mary's, Lima and Wapokoneta, O.
 Cities supplied: Lima, Logansport, Wabash,
 La Fayette, Crawfordsville, Frankfort.

The perfection of the service rendered where the IMPROVED **Welsbach**
STREET LIGHT is in use has been particularly noted. See advertisement,
 page XX.

The Electro Gas Co., New York.

(Absorbed by Union Carbide Co. See Chicago.)

United Coke and Gas Co., New York and Philadelphia.

Principal office, Whitehall Bldg., 17 Battery Place.

Capital stock, pref. \$1,250,000; com. \$1,250,000.

President, Stephen Peabody.

Vice-pres., W. H. Childs.

Sec'y and treas., Ernest J. Steer.

General manager and consulting chemical engineer, Dr. F. Schniewind, New York.

Controls by-product coke-oven process with and without manufacture of illuminating gas.

United Gas and Electric Co., New York.

Office, 40 Wall Street.

Capital stock. Authorised, pref. \$1,500,000, com. \$2,500,000. Issued, pref. \$909,900, com. \$1,163,500.

Bonds, \$1,014,000; due, January 1, 1922; interest, 5 p. c.

President, S. Reading Bertron.

Vice-president, Richard S. Storrs.

Sec'y and treas., Murray W. Dodge.

Purchasing agent, Edwin E. Witherby.

General manager, Edwin E. Witherby.

Auditor, A. S. Cooke.

Holding, handling and operating gas and electric properties and their securities.

OHIO.**Consolidated Gas and Light Co., Toledo.**

Capital stock, \$500,000.

Bonds outstanding, \$300,000; Interest, 5 p. c.

President, R. G. Kerlin.

Secretary, Wm. H. Dore.

Treasurer, E. M. Kerlin.

Own and operate plants at Tiffin, Delphos, New Bremen and Minster, O.

PENNSYLVANIA.**The American Gas Co., Philadelphia.**

Office, 222-224 South Third Street.

Capital stock, auth. and issued, \$1,000,000.

President, Morris W. Stroud.

Secretary, R. L. Babcock.

Asst. treasurer, R. L. Babcock.

Gen. supt. of works, S. P. Curtis.

An operating and construction company.

The National Gas and Construction Co., Philadelphia.

Office, 112 North Broad Street.

Capital stock, authorised, \$1,000,000; issued, \$500,000, fully paid.

President, Jos. S. Keen, Jr.

Vice-president, J. W. Hawley.

Secretary, H. Bayard Hodge.

Treasurer, Geo. M. Bunting.

General manager, Jos. S. Keen, Jr.

Superintendent, James H. Dawes.

Chief engineer, J. W. Ledoux.

Engineers, owners, constructors and operators of gas, electric light, sewerage plants, etc.

COMPANIES OPERATED.

Capital City Light and Fuel Co., Tallahassee, Fla.

Greenville Gas and Electric Light and Power Co., Greenville, S. C.

Greenville Traction Co., Greenville, S. C.

Selma Lighting Co., Selma, Ala.

New Jersey Southern Gas and Electric Co., Philadelphia.

(Witherspoon Building.)

Capital stock, auth., pref. \$250,000; com. \$250,000; issued, pref., \$50,000; com. \$80,000.

President, A. M. Worstall.

Secretary and treas., C. E. Pugh.

Superintendent, S. H. Mounce.

Own and operate electric light and gas companies.

COMPANIES OPERATED.

Wenonah, Clayton and Glassboro (N. J.) Gas Co. and Swedesboro (N. J.) Gas Co.

Pennsylvania Gas Improvement Co., Philadelphia.

Capital stock, full paid, \$100,000.

President, H. T. Duke.

Secretary and treasurer, M. W. Butler.

Holding, operating and constructing gas and electric companies.

COMPANIES OPERATED.Hempstead Gas Light Co., Hempstead, L. I.
Nassau County Gas Co., Nassau County, L. I.
Winston-Salem Gas and Lighting Co., Winston-Salem, N. C.North Penn Gas Co., Montgomery Co., Pa.
Holidaysburg Gas Light Co., Hollidaysburg, Pa.

* The Ambler Gas Co., Ambler, Pa.

* Ephrata Gas Co., Ephrata, Pa.

* Ocean County Gas Co., Tuckerton, N. J.

* Willow Grove (Pa.) Gas and Lighting Co.

* Bucks County Gas Co., Yardley, Pa.

The United Gas Improvement Co., Philadelphia.

Office, Broad and Arch Streets.

Capital stock. Authorised, \$36,725,000; issued, \$36,720,000.

President, Thomas Dolan.

1st vice-president, Samuel T. Bodine.

2d vice-president, Randal Morgan.

3d vice-president, Walton Clark.

Secretary, Lewis Lillie.

Treasurer, Lewis Lillie.

General manager, Samuel T. Bodine.

General superintendent, Walton Clark.

General auditor, E. L. Brundrett.

Engineer in chief, Geo. J. Roberts.

Purchasing agent, J. A. Pearson.

An operating and construction company under the Lowe and other systems. Owns or controls upwards of 50 gas properties in various states, among others the gas companies operating in Philadelphia, Westchester County, N. Y., etc.

*Plants not yet built.

THE **WELSBACH STREET LIGHTING COMPANY OF AMERICA** furnishes a special Park Lamp, which is particularly suitable for the lighting of public parks and boulevards. See advertisement, page xx.

Welsbach Street Lighting Co. of America, Philadelphia.

Capital stock, \$1,000,000.
 President, Arthur E. Shaw.
 Vice-president, Nathan T. Worrall.
 Secretary, Edwin J. Mole.
 Treasurer, Nathan Y. Worrall.
 Purchasing agent, J. A. Pearson.
 General superintendent, D. J. Prendergast.
 Lighting streets by means of the Welsbach street-lighting system.

W. J. McClurg Gas Construction Co., Pittsburg.

Capital stock, \$150,000.
 President, Philip Christman.
 Secretary, W. J. McClurg.
 Treasurer, W. J. McClurg.
 Engineer, George D. Muirhead.
 Construction company installing the Miller-McClurg combination soft coal, water-gas generator for fuel, gas engines, power, electric and Welsbach incandescent lighting, etc.

Schuylkill County Light and Fuel Co., Pottsville.

Principal office, 1309 Real Estate Trust Building, Philadelphia.
 Capital stock, \$200,000.
 Bonds issued, \$350,000.
 President, Clarence P. King.
 Secretary and treas., John W. Pittock.
 Pur. agent and mgr., F. B. Aldrich.
 (This company controls stock by ownership of Pottsville Gas Co., Polo Alto Electric Co; also owns all stock and bonds of Schuylkill Valley Gas Co.)

RHODE ISLAND.**American Gas and Electric Co., Providence,**

(15 Westminster st.)
 Capital stock, pref., \$500,000; com., \$500,000.
 President, S. N. Blake.
 Gen'l mgr., S. N. Blake.
 (Owns and operates gas and electric properties and holds securities of such companies.)

CANADA.**The Economical Gas Apparatus Construction Co., Ltd., Toronto.**

Office, 269 Front Street, East.
 Capital stock, authorised, \$80,000.
 President, W. H. Pearson.
 Vice-president, W. H. Pearson, Jr.
 Treasurer, J. T. Westcott.
 General manager, J. T. Westcott.
 Chief engineer, L. L. Merrifield.
 An operating and constructing company installing the Merrifield-Westcott-Pearson carbureted water-gas apparatus, complete coal-gas apparatus, horizontal and inclined retorts, scrubbers, condensers, purifiers and all classes of gas-works material.

Continental Heat and Light Co., Montreal.

(17-19 Busby Lane.)
 Capital stock, auth. pref., \$100,000; com. \$900,000; issued, \$500,000.
 President, Thos. P. Howard.
 Secretary, S. T. Burt.
 Treasurer, S. T. Burt.
 General manager, S. T. Burt.
 Builders and operators of acetylene gas plants (town and individual).

A. V. HARTWELL

President

W. J. COOK

Secretary

F. G. HARTWELL

Manager

F. G. HARTWELL CO.

Pocahontas Coke

GAS AND STEAM COAL

1306 Fisher Building

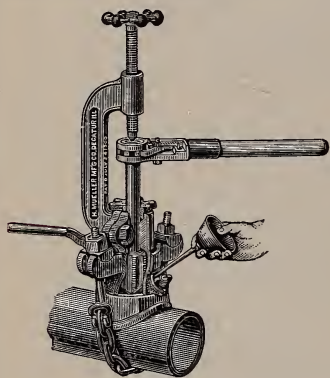
- - -

CHICAGO

Write for special delivered prices on current orders or contract requirements

Mueller Gas Works Goods

The broad range of styles in Mueller Gas Works Goods permits a man to select any goods he may desire in a catalogue pattern and thus avoid the necessity of having any part of his goods made to order



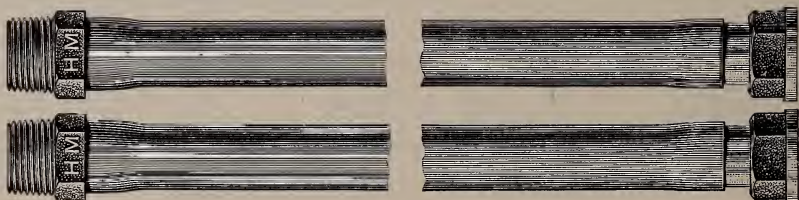
MUELLER GAS MAIN TAPPING MACHINES

Mueller Gas Main Tapping Machines are made in seven styles. Their prices vary according to capacity, and their range of work comprehends every phase of service tapping.

Each machine is unconditionally guaranteed.

MUELLER SWEATED JOINT METER CONNECTIONS

Mueller Sweated Joint Meter Connections are made in six styles, and we also make Cup Joint and Wiped Joint Connections in six styles each. Every style is made in forty-five sizes



and specifications, making a grand total of 810 different sets of connections. Every connection is unconditionally guaranteed.

MUELLER GROUND KEY GAS COCKS

Mueller Gas Cocks represent every use your practice requires. They are made in forty-eight styles, each style being made in straight, oval and round way patterns. Some of these patterns are further classified into grades, making a total of nearly 300 different kinds of cocks.

Every cock bears our trade mark and is unconditionally guaranteed.



MADE ONLY BY

H. MUELLER MFG. CO.
DECATUR, ILL., U. S. A.

AMERICAN GAS LIGHT ASSOCIATION.

Officers.

PRESIDENT, ROLLIN NORRIS.

1st Vice-President,
EDWARD G. COWDERY.

2d Vice-President,
CHAS. F. PRICHARD.

3d Vice-President,
CHAS. R. FABEN, JR.

Secretary and Treasurer,
ALFRED E. FORSTALL, 58 William Street, New York City.

Terms Expire 1904.

DAVID H. GEGGIE,
ROBERT M. SEARLE,
FREDERICK H. SHELTON,
W. P. KNOWLES.

Members of the Council,

Terms Expire 1905,

A. G. GLASGOW,
WM. A. WOOD,
JOHN WILLIAMSON,
WALTON CLARK.

EX-OFFICIO, JUNIOR PAST PRESIDENT, ALTEN S. MILLER.

Past Presidents,

*CHARLES ROOME,	- - - -	1873-79	WILLIAM HENRY WHITE,	- - -	1892
*WILLIAM H. PRICE,	- - -	1880-81	ARTHUR E. BOARDMAN,	- - -	1893
ANDREW HICKENLOOPER,	- - -	1882	WILLIAM H. PEARSON,	- - -	1894
*THEOBALD FORSTALL,	- - -	1883	WALTON CLARK,	- - -	1895
*WILLIAM A. STEDMAN,	- - -	1884	C. J. R. HUMPHREYS,	- - -	1896
EUGENE VANDERPOOL,	- - -	1885	CHAS. H. NETTLETON,	- - -	1897
AUSTIN C. WOOD,	- - -	1886	J. B. CROCKETT,	- - -	1898
MALCOLM S. GREENOUGH,	- - -	1887	ALEXANDER C. HUMPHREYS,	- - -	1899
THOMAS TURNER,	- - -	1888	GEO. G. RAMSDELL,	- - -	1900
ALPHEUS B. SLATER,	- - -	1889	EDWARD G. PRATT,	- - -	1901
EMERSON McMILLIN,	- - -	1890	WM. R. BEAL,	- - -	1902
JOHN P. HARBISON,	- - -	1891	ALTEN S. MILLER,	- - -	1903

Past Secretaries.

HENRY WURTZ,	- - - -	1873	WILLIAM HENRY WHITE,	- - -	1880-83
*PETER E. DEMILL,	- - -	1874	C. J. R. HUMPHREYS	- - -	1884-91
*CHARLES NETTLETON,	- - -	1875-79	A. B. SLATER, Jr.	- - -	1892-96

NEXT ANNUAL MEETING—October 19, 1904, at Washington, D. C.

HONORARY MEMBERS.

- Barker, Forrest E. October 27, 1896. Chairman of Massachusetts Board of Gas and Electric Light Commissioners, Boston, Mass., State House, Room 145.
- Bunte, Dr. H. October 16, 1901. Editor and publisher of the "Journal fur Gasbeleuchtung und Wasserversorgung," professor at the Technischen Hochschule of Karlsruhe, general secretary of the Deutscher Verein von Gas und Wasserfachmannern, Karlsruhe (Baden), Germany.
- Chandler, C. F. October 21, 1875. 51 East 54th Street, New York, N. Y. Professor, Columbia University and Chemist New York Gas Light Co.
- Foote, Allen R. Oct. 17, 1894. 625 Home Ins. B'ld'g., Chicago, Ill. Editor Public Policy.
- King, William October 18, 1877. Duke Street, Liverpool, England, Engineer of Liverpool United Gas Light Co.
- Livesey, George T. October 20, 1897. M. I. C. E., etc., Chairmen of South Metropolitan Gas Co., Old Kent Road, London, England.
- Love, E. G. October 20, 1886. 122 Bowery, New York, N. Y., Gas Examiner of N. Y. City.
- *Morton, Henry October 18, 1878. Hoboken, N. J., President of Stevens Institute of Technology.
- Oechelhaeuser, W. von October 16, 1901. General manager of the Deutschen Continental-Gasgesellschaft, Dessau, Germany. Past president of the Deutschen Vereins von Gas—und Wasserfachmannern.
- Slater, Alpheus B., October 15, 1902, 251 Rhodes Street, Providence, R. I.
- Vautier, Th. October 17, 1900. Le President du Congres International de l'Industrie du Gaz en 1900, 46, rue Central, Lyon (Rhône), France.
- Welsbach, Dr. Carl Ritter Auer von October 17, 1900. IV. Wiedner Hauptstrasse No. 69, Vienna; Austria.
- Woodall, Corbet, October 20, 1897. M. I. C. E., etc., Palace Chambers, Westminster, London, England. Consulting Engineer.

*Deceased.

Welsbach Street Lighting Co. of America

ACTIVE MEMBERS.

- Adams, Charles F., Portland, Ore.
 Adams, Henry C., Philadelphia, Pa.
 Addicks, Frederick P., New York, N. Y.
 Addicks, J. Edward, Wilmington, Del.
 Addicks, Walter R., New York, N. Y.
 Africa, Walter G., Manchester, N. H.
 Aldrich, F. B., Pottsville, Pa.
 Aldrich, W. A., Spokane Falls, Wash.
 Allen, William H., Newark, N. J.
 Allyn, G. E., Providence, R. I.
 Allyn, Horace A., East Cambridge, Mass.
 Ammon, H. T., Wyandotte, Mich.
 Anderson, William C., Paris, France.
 Andrews, J. Charles, Denver, Col.
 Apperson, Richard D., Lynchburg, Va.
 Armington, James H., Riverside, R. I.
 Armington, William A., New York, N. Y.
 Arthur, F. M., Philadelphia, Pa.
 Baehr, William A., St. Louis, Mo.
 Bailey, William, Oskaloosa, Ia.
 Bailey, W. Frank, Wilmington, Del.
 Baldwin, W. S., Detroit, Mich.
 Ball, James, Philadelphia, Pa.
 Barclay, V. B., Newport News, Va.
 Barret, A. H., Louisville, Ky.
 Barrett, W. E., Scranton, Pa.
 Barthold, W. H., Grand Rapids, Mich.
 Bartlett, Edward L., Baltimore, Md.
 Battin, H. S., Philadelphia, Pa.
 Battin, Isaac, Omaha, Neb.
 Battin, Wm. I., Chicago, Ill.
 Baumgardner, John H., Lancaster, Pa.
 Baumgardner, Thos., Belmar, N. J.
 Baxter, Isaac C., Detroit, Mich.
 Baxter, Robert, Halifax, N. S.
 Baxter, William H., Petersburg, Va.
 Bayly, C. Clay, Washington, D. C.
 Beadenkopf, George, Baltimore, Md.
 Beadle, A. B., Philadelphia, Pa.
 Beal, Thaddeus R., Poughkeepsie, N. Y.
 Beal, William R., New York, N. Y.
 Beck, George W., Sunbury, Pa.
 Bell, Ernest William, Chicago, Ill.
 Benner, Henry W., address unknown.
 Bennett, Chas. W., Red Bank, N. J.
 Benson, Fred. S., Brooklyn, N. Y.
 Bertrand, P. A., Springfield, Mo.
 Bigelow, Arthur F., Allentown, Pa.
 Bissell, West, Jersey City, N. J.
 Blake, S. N., Elmira, N. Y.
 Blinks, Walter M., Kalamazoo, Mich.
 Blodget, Charles W., New York, N. Y.
 Blowers, Frank W., Kalamazoo, Mich.
 Boardman, Arthur E., New York, N. Y.
 Boardman, A. J., Tampa Fla.
 Bodine, Samuel T., Philadelphia, Pa.
 Borgner, Cyrus, Philadelphia, Pa.
 Bowen, William S., address unknown.
 Bradley, Fred. L., New York, N. Y.
 Bradley, William H., New York, N. Y.
 Bradley, Sarvey, Atlantic City, N. J.
 Brainard, Don C., Carthage, Mo.
 Braine, John H., Newark, N. J.
 Branch, A. H., Oklahoma, O. T.
 Bredel, Frederick, Milwaukee, Wis.
 Britton, John A., Oakland, Cal.
 Brown, Ernest C., New York, N. Y.
 Brown, Rezeau B., Milwaukee, Wis.
 Brown, W. O., Newton, N. J.
 Bruce, Howard, New York, N. Y.
 Brundrett, E. L., Philadelphia, Pa.
 Bryant, C. F., Bridgeport, Conn.
 Buck, David, Jr., Coatesville, Pa.
 Buck, H. M., Waukesha, Wis.
 Buckman James, Philadelphia, Pa.
 Bunker, Theodore, Camden, N. J.
 Burgi, Herman, New York, N. Y.
 Burke, James E., Princeton, N. J.
 Burrage, Albert C., Boston, Mass.
 Burrage, Charles D., Boston, Mass.
 Burrows, C. E., Walla Walla, Wash.
 Bush, John F., Rochester, N. Y.
 Bush, Robert W., Brooklyn, N. Y.
 Butler, Matthew W., Philadelphia, Pa.
 Butterworth, C. W., St. Albans, Vt.
 Butterworth, Irvin, Detroit, Mich.
 Byers, C. A., Toledo, O.
 Byrne, Edw. J., Brooklyn, N. Y.
 Byrne, Thomas E., Brooklyn, N. Y.
 Cabot, John, Hoboken, N. J.
 Calhoun, Robert, Bay City, Mich.
 Callahan, W. P., Dayton, O.
 Callanan, John M., Chester, Pa.
 Callender, Elbert P., New York, N. Y.
 Campbell, Alex. James, Norwich, Conn.
 Carpenter, William, New York, N. Y.
 Carter, Robert A., New York, N. Y.
 Case, Edwin R., Jersey City, N. J.
 Case, Willard E., Auburn, N. Y.
 Cashion, Edwin M., Glens Falls, N. Y.
 Cathels, Edmund, Providence, R. I.
 Cathels, Wm. M., Brantford, Ont., Can.
 Chandler, Frank E., Medford, Mass.
 Childs, Arthur E., Boston, Mass.
 Chollar, Byron E., St. Louis, Mo.
 Clabaugh, G. W., Omaha, Neb.
 Clahan, John J., Buffalo, N. Y.
 Clark, John A. Jr., East Orange, N. J.
 Clark, John C. D., St. Louis, Mo.
 Clark, Walton, Philadelphia, Pa.
 Clarke, George S., Kansas City, Mo.
 Clary, Edward D., Burlington, Ia.
 Clements, W. B., Mt. Vernon, N. Y.
 Cline, W. B., Los Angeles, Cal.
 Coate, P. S., Chatham, Ont.
 Coates, John R., Ottawa Ont, Can.
 Cobb, Bernard C., Saginaw, Mich.
 Cocke, J. T. B., Birmingham, Ala.
 Coffin, Charles Francis, Watertown, N. Y.
 Coffin, John A., Gloucester, Mass.
 Coggschall, H. F., Fitchburg, Mass.
 Cole, Geo. M., Plattsburg, N. Y.
 Coles, J. M., Asbury Park, N. J.
 Collins, Charles R., Seattle, Wash.
 Collins, David J., Philadelphia, Pa.
 Collins, Henry P., Little Falls, N. Y.
 Collins, John, Newton, N. J.
 Combs, Roger B., Philadelphia, Pa.
 Congdon, Richard C., Frederick, Md.
 Cooke, Alfred S., New York, N. Y.
 Cooper, William H., Amsterdam, N. Y.
 Copley, I. C., Aurora, Ill.
 Corbett, Charles H., Brooklyn, N. Y.
 Cosgrove, W. L., Atlanta, Ga.
 Cowdery, Edward G., St. Louis, Mo.
 Coyle, Patrick, Charlestown, Mass.
 Crafts, H. C., Northampton, Mass.
 Cressler, Alfred D., Fort Wayne, Ind.
 Cresson, B. F., Easton, Pa.
 Crisfield, James A. P., Philadelphia, Pa.

The "Candle Power" given by the IMPROVED **Welsbach** STREET LIGHT is more efficient for street illuminations than that obtained by any other means. See advertisement, page xx.

- Crockett, Joseph B., San Francisco, Cal.
 Cross, Philip, Denver, Colo.
 Crowell, F. B., Atlanta, Ga.
 Cummins, John J., Syracuse, N. Y.
 Curley, Thomas, Wilmington, Del.
 Curran, G. W., Philadelphia, Pa.
 Curtis, Geo. W., Camden, N. J.
 Curtis, Samuel Philip, Philadelphia, Pa.
 Daly, Augustin J., St. Louis, Mo.
 Daly, David R., Jersey City, N. J.
 Danforth, Geo. C., Independence, Mo.
 Daniels, John M., Columbia, S. C.
 Davies, Geo., White Plains, N. Y.
 Davies, H. W., Keyport, N. J.
 Davidson, Roland A., Newburg, N. Y.
 Davis, Fred. J., Waltham, Mass.
 Davis, H. L., Tarrytown, N. Y.
 Davis, J. J., Los Angeles, Cal.
 Dawes, Bemen G., Marietta, O.
 Dawes, Rufus C., Evanston, Ill.
 Dawson, George H., Springfield, Ill.
 Day, Chas. F., Springfield, Mass.
 Dell, John, St. Louis, Mo.
 Dexter, MacDougald, Columbus, Ga.
 Diall, M. N., Terre Haute, Ind.
 Dickel, Carl A., Philadelphia, Pa.
 Dickey, Charles H., Baltimore, Md.
 Dickey, Robert R., Dayton, O.
 Dixon, J. Alfred, New York, N. Y.
 Dixon, Robert M., New York, N. Y.
 Doherty, Henry L., New York, N. Y.
 Doig, Geo. I., Gainesville, Fla.
 Dole, Charles E., Bangor, Me.
 Dole, Walter S., San Francisco, Cal.
 Donahue, E. J., Jersey City, N. J.
 Doty, Paul, Detroit, Mich.
 Dougherty, Dan J., Jacksonville, Fla.
 Douglas, Henry W., Ann Arbor, Mich.
 Douthirt, W. F., Philadelphia, Pa.
 Duke, H. T., Philadelphia, Pa.
 Duke, V. W., Hempstead, N. Y.
 Dunbar, Carl H., Elgin, Ill.
 Dunbar, James W., New Albany, Ind.
 Duncan, Geo. F., Portland, Me.
 Dunderdale, Thos., Ottawa, Can.
 Dunn, Frank S., Albany, N. Y.
 Dusenberry, J. P., Newark, N. J.
 Dutton, Lewis R., Wyncote, Pa.
 Dutton, R. Hayes, Hanover, Pa.
 Eakin, John W., Cairo, Ill.
 Earnshaw, Edward H., Philadelphia, Pa.
 Eaton, W. M., Grand Rapids, Mich.
 Edwards, George B., New York, N. Y.
 Egner, Frederic, Washington, D. C.
 Eichbaum, Frederick H., San Francisco, Cal.
 Eilbeck, A. B., Akron, O.
 Eisele, John C., Newark, N. J.
 Elkins, George W., Philadelphia, Pa.
 Elles, Edward J., Evansville, Ind.
 Elliott, W. R., Philadelphia, Pa.
 Ellis, John W., Woonsocket, R. I.
 Ely, Addison, Rutherford, N. J.
 Ely, Addison, Jr., Dover, N. J.
 Engel, Francis, Elizabeth, N. J.
 Eustace, John H., Chicago, Ill.
 Evans, Charles H., Chicago, Ill.
 Eysenbach, Ernest E., St. Paul, Minn.
 Faben, Charles R. Jr., Toledo, O.
 Ferguson, B. B., Portsmouth, Va.
 Ferrier, James, Columbus, Ga.
 Ferris, Herbert H., Hoboken, N. J.
 Fitz, Robert F., Boston, Mass.
 Flemming, Dudley D., Jersey City, N. J.
 Flick, Warren J., Bethlehem, Pa.
 Floyd, Frederick W., New York, N. Y.
 Fodell, William P., Philadelphia, Pa.
 Fogg, Oscar H., Ocean City, N. J.
 Forbes, Charles, London, Ont., Can.
 Forbes, James, Chattanooga, Tenn.
 Forstall, Alfred E., Montclair, N. J.
 Forstall, Walton, Philadelphia, Pa.
 Foss, Eugene N., Jamaica Plain, Mass.
 Fowler, John, Philadelphia, Pa.
 Fowler, Samuel J., Charlestown, Mass.
 Fox, Clifford S., Long Island City, N. Y.
 Frost, William H., Delray, Mich.
 Frueauff, Frank W., Denver, Col.
 Ganser, Herbert H., Norristown, Pa.
 Gartley, Alonzo, Honolulu, T. H.
 Gartley, William H., Philadelphia, Pa.
 Gates, Frederick W., Hamilton, Ont., Can.
 Geggie, David H., Quebec, Can.
 Geist, C. H., Chicago, Ill.
 George, Thomas L., Philadelphia, Pa.
 Gerould, Charles L., Galesburg, Ill.
 Gibbons, P. H., Philadelphia, Pa.
 Gibbs, W. W., Philadelphia, Pa.
 Giblin, John A., Ilion, N. Y.
 Gifford, Nathaniel W., East Boston, Mass.
 Gilkyson, J. R., Camden, N. J.
 Gimper, John, Galveston, Tex.
 Glasgow, Arthur G., London, S. W., England.
 Glass, Sheldon J., New York, N. Y.
 Golden, John W., Savannah, Ga.
 Goodnow, George F., Waukegan, Ill.
 Gould, John A., Boston, Mass.
 Gould, Vernon K., Bangor, Me.
 Gowan, Sam'l C., New Brunswick, N. J.
 Grace, J. W. Hoboken, N. J.
 Graeff, Harold W., Philadelphia, Pa.
 Graf, Carl H., Detroit, Mich.
 Graham, Malcolm Montrose, New York, N. Y.
 Graves, Henry C., Dayton, O.
 Green, James, St. Louis, Mo.
 Greenough, Malcolm S., Cleveland, O.
 Gribbel, John, Philadelphia, Pa.
 Grover, T. F., Fond du Lac, Wis.
 Guffey, Jos. F., Pittsburg, Pa.
 Guldlin, Olaf N., Ft. Wayne, Ind.
 Gwynn, J. W., Bucyrus, O.
 Haase, Ewald, Milwaukee, Wis.
 Hadden, James M., Poughkeepsie, N. Y.
 Haines, Jansen, Des Moines, Ia.
 Hall, Arthur H., New York, N. Y.
 Hambleton, Francis H., Baltimore, Md.
 Hamilton, Douglass, New York, N. Y.
 Hammatt, Clarence S., Jacksonville, Fla.
 Hantzmon, Harry M., Alexandria, Va.
 Harbison, John P., Hartford, Conn.
 Hardick, Chas. F., Philadelphia, Pa.
 Harper, George H., Altoona, Pa.
 Harris, J. A., Philadelphia, Pa.
 Hartpence, C. C., New York, N. Y.
 Hatstat, John W., Hartford, Conn.
 Hauk, Charles D., address unknown.
 Hay, John, Carlisle, Pa.
 Hayward, Thomas J., Baltimore, Md.
 Healy, Wm. M., Ft. Dodge, Ia.
 Helme, William E., Philadelphia, Pa.
 Herron, J. T., Buffalo, N. Y.
 Hersh, Grier, York, Pa.
 Hickenlooper, Andrew, Cincinnati, O.

Extract from report of Department of Public Works, New York City :

"I was very much surprised during a recent visit to Paris to discover that the **Welsbach** had superseded electricity on all the grand avenues, especially the Champs Elysees."

See advertisement, page xx.

CHAS. H. T. COLLIS, Commissioner.

- Hicks, Richard S., New York, N. Y.
 Highlands, S. M., Clinton, Ia.
 Hill, William H., Boston, Mass.
 Hill, Sam'l, Seattle, Wash.
 Hilleke, August F., Ensley, Ala.
 Hiramatsu, Suyekichi, Tokio, Japan.
 Hofman, G. Max, Ft. Wayne, Ind.
 Holden, Thomas F., Washington, D. C.
 Holmes Rufus E., Winsted, Conn.
 Holzer, Edwin G., Easton, Pa.
 Hopper, William H., Philadelphia, Pa.
 Horton, Thomas O., Stapleton, S. I., N. Y.
 Hough, David Leavitt, New York, N. Y.
 Howard, Chas. A., Aberdeen, S. D.
 Howes R. V., Winston-Salem, N. C.
 Hoyt, Wm. Greeley, New York, N. Y.
 Humphreys, Alex. C., New York, N. Y.
 Humphreys, C. J. R., New York, N. Y.
 Humphreys, James J., Jr., Coney Island, N. Y.
 Huntress, Fred. A., Halifax, N. S.
 Hurlburt, A., Philadelphia, Pa.
 Hyde, Henry H., Racine, Wis.
 Irwin, C. Henry, Long Branch, N. J.
 Isbell, Charles W., New York, N. Y.
 Jackson, Walter M., Stamford, Conn.
 Jelliffe, C. N., New York, N. Y.
 Johnston, Merryne E., Jersey City, N. J.
 Jones, Edward C., San Francisco, Cal.
 Jones, T. C., Delaware, O.
 Jordan, J. Awdry, Cambridge, Md.
 Jourdan, James H., Brooklyn, N. Y.
 Kellogg, L. L., Sioux City, Ia.
 Kempf, John, Jr., Salt Lake City, Utah.
 Kennedy, James S., New York, N. Y.
 Keppelman, John H., Reading, Pa.
 Kidner, R. W., London, Ont.
 Kingsbury, Frank D., Corning, N. Y.
 Klumpp, John B., Philadelphia, Pa.
 Knapp, Isaac N., Ardmore, Pa.
 Knight, Charles S., Ft. Wayne, Ind.
 Knight, J. J., Kalamazoo, Mich.
 Knowles, W. P., Richmond, Va.
 Konrad Augustus, Tarrytown, N. Y.
 Kuehn, Jacob L., York, Pa.
 Lamson, Charles D., Worcester, Mass.
 Lane, F. K., White Plains, N. Y.
 Lane, James W., Williamsport, Pa.
 Lathrop, A. P., St. Paul, Minn.
 Lawrence, W. F., Long Island City, N. Y.
 Learned, Charles A., Meriden, Conn.
 Learned, Everett C., New Britain, Conn.
 Learned, Waldo A., Newton, Mass.
 Leetch, John, Washington, D. C.
 Leland, George B., Norwich, Conn.
 Leonard, Charles F., Fall River, Mass.
 Light, George, Dayton, O.
 Light, Joseph, Dayton, O.
 Lillie, Lewis, Philadelphia, Pa.
 Lindstedt, Julius, Manitowoc, Wis.
 Linton, S. E., Jr., Savannah, Ga.
 Little, F. W., Peoria, Ill.
 Littlehales, Thomas G., Chester, Pa.
 Lloyd, Ernest F., Detroit, Mich.
 Logan, John D., Brooklyn, N. Y.
 Logan, William J., Brooklyn, N. Y.
 Lomax, Clarence, Everett, Mass.
 Loomis Burdett, New York, N. Y.
 Lowe, T. S. C., Pasadena, Cal.
 Ludlam, Edwin, Brooklyn, N. Y.
 Lynch, Eugene T., Rhinebeck, N. Y.
 Lynn, James T., Port Huron, Mich.
 McCaffrey, Geo. F., Cambridgeport, Mass.
 McCleary, Alexander J., Philadelphia, Pa.
 McCullough, Edmund H., Philadelphia, Pa.
 MacDonald, Benj. J., Newburg, N. Y.
 McDonald, Donald, Louisville, Ky.
 McDonald, William, Albany, N. Y.
 McGregor, Wm., Pawtucket, R. I.
 McIlhenny, John, Philadelphia, Pa.
 McIlhenny, John D., Philadelphia, Pa.
 McIlhenny, James S., Washington, D. C.
 McKay, William E., Milton, Mass.
 McKenzie, W. H., Sioux Falls, So. Dakota.
 McLean, George, Dubuque, Ia.
 McLean, John R., Washington, D. C.
 MacMillan, George, La Crosse, Wis.
 MacMillan, Robert, Kansas City, Mo.
 McMillin, Emerson, New York, N. Y.
 Macmun, G. F., Marlboro, Mass.
 Maloney, Andrew P., Philadelphia, Pa.
 Manier, Robert W., Binghamton, N. Y.
 Mann, Howard, E., Cleveland, O.
 Mansur, John H., Royersford, Pa.
 Marani, Virgil G., Cleveland, O.
 Marks, Wm. D., Philadelphia, Pa.
 Marshall, W. H., Philadelphia, Pa.
 Marple, Wm. M., Scranton, Pa.
 Max, William J., Middletown, N. Y.
 Mayer, Frederick J., Baltimore, Md.
 Mayers, J. A., New York, N. Y.
 Maynard, H. B., Ottumwa, Ia.
 Meginniss, Edw. B., Baltimore, Md.
 Meginniss, Nathaniel T., Baltimore, Md.
 Merrifield, L. L., Toronto, Can.
 Merritt, Albert H., Niagara Falls, N. Y.
 Merritt, A. H., Vineland, N. J.
 Merritt, Charles H., Danbury, Conn.
 Merritt, Wm. H., Lebanon, Pa.
 Middleton, Robert L., Washington, D. C.
 Miller, Alten S., Baltimore, Md.
 Miller, Carroll, Chicago, Ill.
 Miller, C. O. G., San Francisco, Cal.
 Miller, Ira Abbott, Colorado Springs, Col.
 Miller, Thomas David, New Orleans, La.
 Miller, William A., Cincinnati, O.
 Miller, Wm. B., Augusta, Ga.
 Milsted, William N., New York, N. Y.
 Mitchell, Kerr M., St. Joseph, Mo.
 Molony, Martin, Philadelphia, Pa.
 Moore, A. W., Woodstock, Ont.
 Moore, Northrop, Kansas City, Kan.
 Morehead, J. M., Chicago, Ill.
 Morgans, William H., Pontiac, Mich.
 Morrell, Edward E., Oak Park, Ill.
 Morris, Henry G., Philadelphia, Pa.
 Morris, W. Cullen, Ravenswood, L. I., N. Y.
 Morrison, H. K., Concord, N. H.
 Morse, C. W., Marlboro, Mass.
 Morton, Fred. N., Philadelphia, Pa.
 Moses, Frank D., Trenton, N. J.
 Moses, George W., Chelsea, Mass.
 Motley, George S., Lowell, Mass.
 Moulton, Wm. Henry, Portland, Me.
 Nettleton, Charles H., Derby, Conn.
 Norcross, J. A., New Haven, Conn.
 Norcross, J. C., Harrison, N. J.
 Norland, Manning A., Chicago, Ill.
 Norris, Rollin, Philadelphia, Pa.
 Norton, Walter F., Nashua, N. H.
 Nute, Joseph E., Fall River, Mass.
 Nutting Charles H., Chicopee, Mass.

THE **Welsbach** STREET LIGHT possesses absolute immunity from flickering or smoke in the lanterns; also from bugs and other outside obstructions to illumination. See advertisement, page xx.

- Oill, Geo. L., St. Thomas, Ont.
 Old, George, St. Augustine, Fla.
 Page, Carter H., Jr., Philadelphia, Pa.
 Palmer, L. T., Tonawanda, N. Y.
 Parker, Frank H., Burlington, Vt.
 Parker, Richard Marsh, Buffalo, N. Y.
 Parker, T. R., Napa, Cal.
 Patterson, H. S., Jersey City, N. J.
 Paullins, William C., Pueblo, Colo.
 Pearson, William H., Toronto, Ont.
 Pearson, William H., Jr., Toronto, Ont.
 Pease, A. C., Yonkers, N. Y.
 Pelton, Frank Kerr, Detroit, Mich.
 Perkins, James D., New York, N. Y.
 Perry, J. A., Philadelphia, Pa.
 Pettes, Wm. H., Newark, N. J.
 Pinkney, Edward A., Middletown, Pa.
 Planck, J. W., Ilion, N. Y.
 Polk, Roger W., Rutland, Vt.
 Pollitt, L. I., Pine Bluff, Ark.
 Pond, E. C., Petersburg, Va.
 Poor, Frank B., address unknown.
 Porter, J. F., Alton, Ill.
 Powell, H. H., Woodstock, Ont.
 Powers, Edgar T., Baltimore, Md.
 Pratt, Edward G., Milwaukee, Wis.
 Prichard, Charles F., Lynn, Mass.
 Printz, Eugene, Zanesville, O.
 Purcell, T. V., Chicago, Ill.
 Putnam, W. R., Red Wing, Minn.
 Quackenbush, Chas. H., Ardmore, Pa.
 Quinn, Andrew K., Newport, R. I.
 Ramsdell, George G., New York, N. Y.
 Ramsey, Wm. H. C., Johnstown, Pa.
 Randolph, William W., New York, N. Y.
 Reaves, Robert, Scranton, Pa.
 Reichelt, A. F., New York, N. Y.
 Reilly, John W., Wilmington, N. C.
 Reitmeyer, A. F., Elizabeth, N. J.
 Rice, Henry L., Norfolk, Va.
 Richardson, Frank S., North Adams, Mass.
 Ringwood, Thomas, Ilion, N. Y.
 Riselay, William S., Buffalo, N. Y.
 Roberts, George J., Philadelphia, Pa.
 Robison, C. D., Auburn, N. Y.
 Rogers, W. H., Paterson, N. J.
 Roohan, P. F., Saratoga Springs, N. Y.
 Roper, George D., Rockford, Ill.
 Rosenquest, Eugene, Westchester, N. Y.
 Rosenthal, Albert, Mount Vernon, N. Y.
 Ross, Alexander, St. Louis, Mo.
 Ross, J. Charles, Steubenville, O.
 Rossman, G. M., Keene, N. H.
 Royce, F. P., Boston, Mass.
 Rowland, Charles L., Brooklyn, N. Y.
 Rowland, Thomas F., New York, N. Y.
 Rowland, William L., Philadelphia, Pa.
 Rusby, John M., Philadelphia, Pa.
 Russell, Daniel R., St. Louis, Mo.
 Russell, Henry Z., Honesdale, Pa.
 Sargent, Fred. H., Lawrence, Mass.
 Sawyer, F. H., Norfolk, Va.
 Schenck, Rudolph, Chicago, Ill.
 Schneewind, F., New York, N. Y.
 Schwarm, C. A., Hornellsville, N. Y.
 Scranton, Geo. H., Derby, Conn.
 Scranton, Worthington, Scranton, Pa.
 Searle, Robert M., Mount Vernon, N. Y.
 Seaverns, F., New York, N. Y.
 Second, W. L., New Rochelle, N. Y.
 Serrell, L. W., New York, N. Y.
 Serrill, William J., Philadelphia, Pa.
 Seymour, E. B., Corning, N. Y.
 Seymour, William W., Tacoma, Wash.
 Shattuck, John D., Chester, Pa.
 Shelton, Frederick H., Philadelphia, Pa.
 Shepherd, Herbert L., Dover, N. H.
 Sherman, F. C., New Haven, Conn.
 Sickels, Avery Clinton, Steelton, Pa.
 Simpson, Colin C., New York, N. Y.
 Simpson, Mastin, Kansas City, Mo.
 Sisson, Frank N., Albany, N. Y.
 Slade, Foster Cornell, Yonkers, N. Y.
 Slade, Richmond E., Lockport, N. Y.
 Slaney, Henry C., Brooklyn, N. Y.
 Slater, A. B., Jr., Ft. Wayne, Ind.
 Sloper, Andrew J., New Britain, Conn.
 Smart, Fred. R., Jr., York, Pa.
 Smith, John W., Philadelphia, Pa.
 Smith, William H., Philadelphia, Pa.
 Snow, William H., Holyoke, Mass.
 Somerville, James, Indianapolis, Ind.
 Spangenberg, B. H., Philadelphia, Pa.
 Spaulding, Charles F., Waltham, Mass.
 Spinning, W. V., Peru, Ind.
 Spragle, L. D., Johnstown, N. Y.
 Sprague, Charles H., Boston, Mass.
 Springer, Edward S., Leavenworth, Kan.
 Stacey, James E., Cincinnati, O.
 Steck, Henry, Philadelphia, Pa.
 Stelling, C. A., Passaic, N. J.
 Stephenson, Wm., South Amboy, N. J.
 Stilwell, B. W., Yonkers, N. Y.
 Stines, Geo. A., Pawtucket, R. I.
 Stirzel, J. W., Philadelphia, Pa.
 Stockton, Richard, Trenton, N. J.
 Stratton, F. A., Mount Vernon, N. Y.
 Strecker, Alexander H., Newark, N. J.
 Strong, C. D., address unknown.
 Stroud, Morris W., Philadelphia, Pa.
 Summers, Geo., Chicago, Ill.
 Summey, D. L., Waterbury, Conn.
 Taber, Robert B., Burlington, Vt.
 Tait, Frank M., New London, Conn.
 Talbott, Frank, Danville, Va.
 Taussig, J. Hawley, Newark, N. J.
 Tayler, George H., Warren, O.
 Taylor, J. D., Jr., Canon City, Colo.
 Tenney, Chas. H., Boston, Mass.
 Terry, F. L., New Britain, Conn.
 Thomas, Chas. G. M., Flushing, N. Y.
 Thomas, John W., Vallejo, Cal.
 Thomas, William C., Hackensack, N. J.
 Thompson, F. deV., Springfield, Mass.
 Thompson, Paul, Philadelphia, Pa.
 Thwing, Orrell, O., St. Louis, Mo.
 Tippy, B. O., Detroit, Mich.
 Tippy, Charles W., Fulton, N. Y.
 Titzel, C. Edgar, Lancaster, Pa.
 Tobey, Franklin, Jr., Kingston, N. Y.
 Tompkins, John P., Atlantic City, N. J.
 Travis, F. M., New Haven, Conn.
 Tull, Lucien P. F., New York, N. Y.
 Turner, Thomas, Charleston, S. C.
 Tuttle, William B., Long Branch, N. J.
 Tyler, W. Graham, Philadelphia, Pa.
 Von Mour, Jacob D., St. Louis, Mo.
 Vincent, G. I., Philadelphia, Pa.
 Voorhis, A. M., Nyack, N. Y.
 Wainright, Arthur V., South Norwalk, Conn.
 Wakeman, E. A., Batavia, N. Y.
 Walbridge, H. D., New York, N. Y.

"The fact that the number of lamps in Worcester has been increased and the contract recommended by a unanimous vote of the City Council, is perhaps a sufficient answer to the inquiry if the service is satisfactory to the citizens of Worcester."

See advertisement, page xx.

HENRY A. KNIGHT, Superintendent of Street Lights.

- Waldo, Charles S., Boston, Mass.
 Wales, Harry B., Grand Rapids, Mich.
 Walker, Edwin M., Bristol, Tenn.
 Walker, M. Timmons, Ft. Madison, Ia.
 Walker, Sidney R., Bay City, Mich.
 Walker, Wm. L., Fitchburg, Mass.
 Wallace, Robt. A., Hamilton, Ont.
 Walter, E. P., Germantown, Pa.
 Walters, Benj. S., Blue Island, Ill.
 Walton, Albert, Auburn, N. Y.
 Waring, Geo. H., Jr., Omaha, Neb.
 Warmington, Daniel R., Cleveland, O.
 Warmington, George H., Cleveland, O.
 Warner, George H., New York, N. Y.
 Weaver, R. S., Port Jervis, N. Y.
 Weber, Adam, New York, N. Y.
 Weber, Oscar B., New York, N. Y.
 Wehner, Adolph F., Newark, N. J.
 Wells, L. W., Canton, O.
 Welsh, Wm. J., Stapleton, N. Y.
 Westcott, John T., London, S. W., England.
 Wharton, W. S., Whatecom, Wash.
 Wheeler, Fred. B., Binghamton, N. Y.
 Whipple, Henry S., Rockford, Ill.
 Whitaker, J. S., Portsmouth, N. H.
 Whitcomb, Henry D., Jr., Newark, N. J.
 White, Charles E., Wakefield, Mass.
 White, Edward D., Brooklyn, N. Y.
 White, Edwin C., Long Branch, N. J.
 White, Henry H., Belleville, Ill.
 White, Wm. Henry, New York, N. Y.
 Whitney, Henry C., Watertown, N. Y.
 Whitson, John G., Watsonville, Cal.
 Whittaker, Alan Dean, Paterson, N. J.
 Whittier, Charles R., New York, N. Y.
 Wilcox, John F., Syracuse, N. Y.
 Williams, E. H., Waterbury, Conn.
 Williams, Herbert G., Port Chester, N. Y.
 Williams, L. S., Harrisburg, Pa.
 Williams, W. L., Paterson, N. J.
 Williamson, John, Chicago, Ill.
 Wilson, W. A., Portage, Wis.
 Witherby, Edwin E., New York, N. Y.
 Wolff, Sam'l E., Jackson, Mich.
 Wood, Austin C., Syracuse, N. Y.
 Wood, Stuart, Philadelphia, Pa.
 Wood, T. B., Philadelphia, Pa.
 Wood, Walter, Millville, N. J.
 Wood, William A., Boston, Mass.
 Woods, George E., New York, N. Y.
 Woodward, Ralph, Pittsfield, Mass.
 Woollen, A. L., New York, N. Y.
 Wortendyke, Ira F., Janesville, Wis.
 Yorke, Eugene H., Portland, Me.
 Young, Alfred W., Knoxville, Tenn.
 Young, James M. H., Joplin, Mo.
 Young, John, Allegheny, Pa.
 Young, Percy S., Newark, N. J.
 Young, Peter, Pittsburg, Pa.
 Young, Richard R., Passaic, N. J.
 Young, Robert, Pittsburg, Pa.
 Young, Robert, Jr., Atlanta, Ga.
 Zeek, Charles F., Pensacola, Fla.
 Zollikoffer, Oscar F., New York, N. Y.

ASSOCIATE MEMBERS.

- Alcott, Franklyn L., Cleveland, O.
 Allen, Walter S., New Bedford, Mass.
 Atwater, Christopher G., Sydney, Cape Breton, N. S.
 Baldwin, Charles H., Boston, Mass.
 Barbour, W. T., Detroit, Mich.
 Barrows, George Shattuck, Gloucester City, N. J.
 Bartlett, D. Lewis, Baltimore, Md.
 Bassett, Frank A., Boston, Mass.
 Bayles, James C., New York, N. Y.
 Behrend, Fritz, New York, N. Y.
 Bernstein, S., New York, N. Y.
 Boal, Stanhope, Piqua, O.
 Bower, William H., Philadelphia, Pa.
 Brown, Frank H., Waltham, Mass.
 Brownell, E. E., Dayton, O.
 Bunnell, Sterling H., Lorain, O.
 Burchard, Lewis Sayre, New York, N. Y.
 Carpenter, H. A., Allegheny, Pa.
 Cartwright, Henry R., Philadelphia, Pa.
 Case, C. A., Chicago, Ill.
 Casey, Wm. J., San Francisco, Cal.
 Chaney, Franklin V., Boston, Mass.
 Cheesman, Frank P., New York City.
 Coburn, Cyrus M., Chelsea, Mass.
 Coleman, H. W., Philadelphia, Pa.
 Collins, Warren, Stamford, Conn.
 Compton, Melvin D., New York, N. Y.
 Cox, Edw. L., New York, N. Y.
 Crane, William M., New York, N. Y.
 Cressler, Alfred M., Fort Wayne, Ind.
 Cressler, George D., Fort Wayne, Ind.
 Cruse, Arthur R., Philadelphia, Pa.
 DeHart, J. S., Jr., Newark, N. J.
 Dickel, William L., New York, N. Y.
 Dickey, Edmund S., Baltimore, Md.
 Dods, John C., St. Louis, Mo.
 Drummond, M. J., New York, N. Y.
 Eaton, Alfred B., Chicago, Ill.
 Fiske, John T., Port Chester, N. Y.
 Floyd, James R., Jr., Newburg, N. Y.
 Garrison, John J., Boston, Mass.
 Genay, Thomas S., Philadelphia, Pa.
 Gosnell, W. D., Baltimore, Md.
 Granger, W. R., Montreal, Canada.
 Graves, George W., Rochester, N. Y.
 Gregg, Frank M., Cleveland, O.
 Gribbel, William S., New York, N. Y.
 Harper, H. D., Chicago, Ill.
 Hayward, Sterling F., New York, N. Y.
 Henderson, E. H., address unknown.
 Higgins, C. M., New York, N. Y.
 Hinman, Charles W., Boston, Mass.
 Hunter, Harry W., Baltimore, Md.
 Jacobs, Charles H., Detroit, Mich.
 Johnston, E. D., Connersville, Ind.
 Kahn, Lazard, Hamilton, O.
 Kellum, Benj. J., Chicago, Ill.
 Kenah, R. L. Jr., New Brighton, Pa.
 Latta, M. Nisbet, Charlotte, N. C.
 Leakey, Nathan G., Detroit, Mich.
 Lindsay, Chas. R., Chicago, Ill.
 Lippincott, Wilbur M., New York, N. Y.
 Little, George B., Boston, Mass.
 Luqueer, Robert O., M. E., New York, N. Y.
 McDonald, Albert, Erie, Pa.
 McDonald, Donald, Albany, N. Y.
 McIlravy, W. N., New York, N. Y.

THE INCREASED CANDLE POWER of the Improved **Welsbach** Street Light is all utilized because it is distributed horizontally and below the horizontal plane in every direction. See advertisement, page xx.

McIntire, John K., Dayton, O.
 McNary, J. B., Windsor, Ont.
 Manning, J. L., Middlesborough, Ky.
 Marsh, Converse D., New York, N. Y.
 Mason, Sidney, Philadelphia, Pa.
 Miller, Robert S., Sterling, Ill.
 Mills, William A., Port Chester, N. Y.
 Mordue, Thomas N., Chicago, Ill.
 Mueller, Robert, Decatur, Ill.
 Nichols, Carroll B., Philadelphia, Pa.
 Nicoll, John F., Otto, Pa.
 Norton, Arthur E., Boston, Mass.
 Norton, Harry A., Boston, Mass.
 Osbourne, Willard B., Pittsburg, Pa.
 Osius, George, Detroit, Mich.
 Page, Albion L., New York, N. Y.
 Palmer, George Q., New York, N. Y.
 Parker, Geo. W., New York, N. Y.
 Pattison, Melvin, Cleveland, O.
 Payne, F. H., Erie, Pa.
 Pearson, Joshua Ash, Philadelphia, Pa.
 Persons, Fred. R., Toledo, O.
 Piser, Theodore, Halstead, Boston, Mass.
 Plantinga, Pierre, Cleveland, O.
 Platt, E. S., St. Louis, Mo.
 Potter, T. J., West Roxbury, Mass.
 Prendergast, Daniel J., New York, N. Y.

Rancke, Louis N., Baltimore, Md.
 Roberts, Clarence V., Philadelphia, Pa.
 Rodgers, E. H., Philadelphia, Pa.
 Sadtler, J. P. B., Baltimore, Md.
 Schumacker, Gerard, New York, N. Y.
 Schutt, Henry L., Buffalo, N. Y.
 Steinwedell, W. E., Cleveland, O.
 Steward, Robert Bruce, Chattanooga, Tenn.
 Stratton, S. S., Chicago, Ill.
 Taylor, Horace G., M. E., London, S. W., Eng.
 Terhune, Charles F., New York, N. Y.
 Tolman, Wm. Nichols, Philadelphia, Pa.
 Trenkamp, H. J., Cleveland, O.
 Van Wie, E. G., Detroit, Mich.
 Warren, Henry J., Stamford, Conn.
 Webber, Wesley, New York, N. Y.
 Wehner, R. K., Newark, N. J.
 Welch, John S., Philadelphia, Pa.
 Wells, Fred. K., New York, N. Y.
 Wharton, Henry, Philadelphia, Pa.
 Wickham, Leigh, St. Louis, Mo.
 Wilbraham, John S., Philadelphia, Pa.
 Wilbraham, John W., Philadelphia, Pa.
 Wilkin, John T., Connorsville, Ind.
 Wood, Edward R., Jr., Philadelphia, Pa.
 Zwislser, A. L., Kalamazoo, Mich.

JUNIOR MEMBERS.

Allison, Walter A., Philadelphia, Pa.
 Bucher, Paul, White Plains, N. Y.
 Burnett, Frederick, East Toronto, Canada.
 Butler, J. F., Ardmore, Pa.
 Cadwallader, Lacey L., Roxborough, Philadelphia, Pa.
 Castor, Wm. A., Frankford, Pa.
 Christy, Henry B., Frankford, Philadelphia, Pa.
 Dunne, Philip, Philadelphia, Pa.
 Fitzpatrick, Dan, St. Augustine, Fla.
 Forbes, Walter, Chattanooga, Tenn.
 Fowler, Joseph W., Jacksonville, Fla.
 Frick, John Arthur, Philadelphia, Pa.
 Fulweiler, Walter Herbert, Kansas City, Mo.
 Gillingham, Hubert D., Germantown, Philadelphia, Pa.
 Graham, L. C., Philadelphia, Pa.
 Green, Albert, Frankford, Philadelphia, Pa.

Hammond, Eric W., Llanwellyn P. O., Delaware County, Pa.
 Johnston, Ernest, St. Augustine, Fla.
 Kellogg, R. M., Yonkers, N. Y.
 Keppleman, J. Ellwood, Philadelphia, Pa.
 Laubenstein, A. R., Philadelphia, Pa.
 Lucena, Joseph, Philadelphia, Pa.
 Macbeth, G. T., Yonkers, N. Y.
 Myler, J. A., Jr., Mamaroneck, N. Y.
 Parker, Jno. C., Germantown, Philadelphia, Pa.
 Parker, Joseph Smith, Philadelphia, Pa.
 Price, Wm. H., Lakewood, R. I.
 Roberts, F. M., Portchester, N. Y.
 Schauer, Frank F., Philadelphia, Pa.
 Skinner, Samuel, Montreal P. O., Canada.
 Terry, H. W., Jr., Mount Vernon, N. Y.
 Tinsman, E. H., Germantown, Philadelphia, Pa.
 Umstead, Elmer S., Philadelphia, Pa.
 Williams, Thomas G., Philadelphia, Pa.

THE NEW INVERTED INCANDESCENT GAS LAMP CO.

LTD.

GEO. G. RAMSDELL

Agent

530 Broadway, New York

UTILIZE YOUR GAS LIQUOR

No Extra Labor
or Operating
Expenses
For Small
Works.

Over 100

in Use. Write to

STROH & OSIUS, Patentees, or
MICHIGAN AMMONIA WORKS, Detroit, Mich.

IMPROVED AMMONIA CONCENTRATOR

INTERNATIONAL ACETYLENE ASSOCIATION.

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PRESIDENT, J. B. CARROLL.

VICE-PRESIDENT, HENRY GIESSEL.

SECRETARY AND TREASURER, G. W. MEAD, 157 Michigan Ave., Chicago, Ill.

Executive Committee.

H. E. SHAFFER,

G. L. WILSON,

GEO. F. OWEN,

I. L. HARRIS.

NEXT MEETING.—To be held at St. Louis, Mo., Summer of 1904.

ACTIVE MEMBERS.

Acetylene Apparatus Mfg. Co., Chicago, Ill.
Acetylene Generator Mfg. Co., Wapakoneta, O.
Acetylene Journal Pub. Co., Chicago, Ill.
American Acetylene Burner Co., Hoosick Falls, N. Y.
American Acetylene Stove Co., Minneapolis, Minn.
Angell Acetylene Apparatus Mfg. Derry, N. H.
Burgess Gas Process Co., Toronto, Canada.
Burling, W. R., Newark, N. J.
Butler, C. A., Mfg. Co., Port Townsend, Wash.
Carroll, J. B., Chicago, Ill.
Clay, Walter B., Washington, D. C.
Coke, John H., Black Diamond, Wash.
Commercial & Gen'l Acetylene Co., New York, N. Y.
Crane Co., Wm. M., New York, N. Y.
Davis Acetylene Co., Elkhart, Ind.
Drake Acetylene Apparatus Co., Cleveland, O.
Eagle Generator Co., St. Louis, Mo.
Earle, Edward M., Kingston, Jamaica, B. W. I.
Electro Lamp Co., New York, N. Y.
Epworth Gas Light and Heating Co., Waterloo, Ia.
Exley Inman Co., Providence, R. I.
Federoll, R., New York, N. Y.
Fowler Acetylene Lighting and Heating Co., Chicago, Ill.
Graf, John J., Cincinnati, O.
Harris, Thomas H., Box 650, Habana, Cuba.
Hampton, O. H., Fountain City, Ind.
Hine Watt Mfg. Co., Chicago, Ill.

Higgs Acetylene Gas Gen. Co., Chicago, Ill.
Iden & Co., New York, N. Y.
King & Dunn, Taunton, Mass.
Kirchberger & Co., M., New York, N. Y.
Lynch Mfg. Co., The G. R., Chattanooga, Tenn.
Madsen & Co., C. P., Salt Lake City, Utah.
McCormick Generator Co., Wilson, N. Y.
Monarch Acetylene Gas Co., Omaha, Neb.
McQueen Mfg. Co., F. O., Scottsburg, Ind.
National Stove & Mfg. Co., Cleveland, O.
New Process Steel and Wire Co., Dallas, Tex.
Niagara Falls Acetylene Gas Gen. Co., Niagara Falls, N. Y.
Owen, Geo. F., Grand Rapids, Mich.
Pacific Acetylene Gas Co., San Francisco, Calif.
Rex Acetylene Gen. Co., Binghamton, N. Y.
Roessler & Hasslacher Chem. Co., New York, N. Y.
Rush Acetylene Gen. Co., Canandaigua, N. Y.
State Line Mfg. Co., Chattanooga, Tenn.
Stover, Frank E., Inray, Va.
Sunlight Lava Co., Chattanooga, Tenn.
Sunlight Gas Mch. Co., New York, N. Y.
Shute, P. W., Ypsilanti, Mich.
Tallmadge, J. W., Boston, Mass.
Tilley, J. F., Washington, D. C.
Titus, Edward S., Hempstead, L. I.
Union Carbide Co., Chicago, Ill.
Williamson & Co., R., Chicago, Ill.
Wilson & Co., F. Cortez, Chicago, Ill.
Wing, L. J., New York, N. Y.
Williams, Chauncey Lawrence, Chicago, Ill.

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We respectfully ask your attention to the unequaled facilities which our experience (over twenty-five years), and our equipment (the largest and most modern in the world), has provided for the making of **STEWARD LAVA TIPS** and **STEWARD BURNERS (Union-Jet Checked)**. We earnestly solicit a trial order and positively guarantee our goods. Small orders (one gross up) receive our promptest, most careful attention, or we can ship a thousand gross the same day order is received.

SPECIAL—One Gross **STEWARD LAVA TIPS**, \$1.00. One Gross **STEWARD BURNERS**, \$5.00
Express paid to any Gas Co. in U. S. A. Give size and pressure when ordering.

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J. C. NICHOLSON.

3d Vice-President,
A. T. RODGERS.

SECRETARY AND TREASURER, JAMES D. NICHOLSON, NEWTON, KAN.

NEXT ANNUAL MEETING.—October 18, 1904, at Leavenworth, Kan.

HONORARY MEMBERS.

Prof. Lucien I. Blake, K. S. U., Lawrence, Kan. Prof. E. H. S. Bailey, K. S. U., Lawrence, Kan.
Prof. F. O. Marvin, K. S. U., Lawrence, Kan. R. M. Freeman, Lawrence, Kan.
B. F. Eyer, Manhattan, Kan. Edgar L. Street, New York, N. Y.

ACTIVE MEMBERS.

Aley F. D., Wichita, Kan.	Moore, Northrop, Kansas City, Kan.
Becker, E. H., Ottawa, Kan.	Morrison, W. R., Wichita, Kan.
Cady, Atwood, Fredonia, Kan.	Morse, J. C. O., Hutchinson, Kan.
Cowdry, R. E., Topeka, Kan.	Mulvane, Joab, Topeka, Kan.
Crouse, Geo. H., Wellington, Kan.	Nicholson, James D., Newton, Kan.
Deilman, P. J., Topeka, Kan.	Nicholson, John C., Newton, Kan.
Deming, Robert O., Kansas City, Mo.	O'Neill, J. W., Topeka, Kan.
Elder, A. P., Ottawa, Kan.	Patmor, James, Pittsburg, Kan.
Fein, Fred. W., Lawrence, Kan.	Patten, M. A., Topeka, Kan.
Fountain, Wm. H., Eldorado, Kan.	Peters, Mr., Excelsior Springs, Mo.
French, H. A., Newton, Kan.	Riley, Lee, Kansas City, Kan.
Friedberg, Harry, Kansas City, Kan.	Rodgers, A. T., Beloit, Kan.
Fuller, J. H., Winfield, Kan.	Seabury, W. G., Pittsburg, Kan.
Gant, W. E., Holton, Kan.	Selig, E. T., Ft. Scott, Kan.
Hornaday, Grant, Ft. Scott, Kan.	Shaw, Jesse, Topeka, Kan.
Hutchinson, W. E., Hutchinson, Kan.	Siegfried, H. M., Atchinson, Kan.
Johnston, R. C., Lawrence, Kan.	Soden, W. T., Emporia, Kan.
Jones, F. A., Pittsburg, Kan.	Springer, E. S., Leavenworth, Kan.
Kiersted, Wynkoop, Kansas City, Mo.	Sterrett, Samuel, W., Kansas City, Kan.
Lloyd, T. E. C., Kansas City, Kan.	Sweezy, W. E., Junction City, Kan.
Marshall, C. M., Atchison, Kan.	Tracy, Wm., Salina, Kan.
Maunsell, C. R., Topeka Kan.	Wheeler, I. W., Fort Scott, Kan.
McDonnell, Robert E., Kansas City, Mo.	Wills, E. S., Atchison, Kan.
McKim, James, Wier City, Kan.	Wisler, C. T., Junction City, Kan.

ASSOCIATE MEMBERS.

Ambler, T. M., St. Louis, Mo.	Overton, E. L., Topeka, Kan.
Collins, Warren, New York.	Reed, E. M., Kansas City, Mo.
Foley, J. H., Leavenworth, Kan.	Riddle, L. E., Kansas City, Mo.
Gregg, W. S., Kansas City, Mo.	Royer, E. R., Kansas City, Mo.
Hodge, R. W., Kansas City, Mo.	Schaefer, J. F., Kansas City, Mo.
Major, Arthur, Kansas City, Mo.	Seymour, H. G., Kansas City, Mo.
Osborn, W. T., Kansas City, Mo.	Sherman, C. K., Kansas City, Mo.

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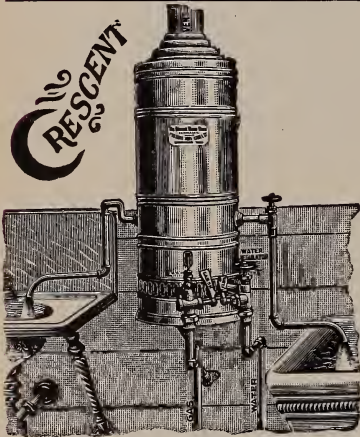
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Special Cranes for Lifting

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Humphrey Crescent Instantaneous WATER HEATERS

Are the Best. Every Gas Company should handle them.

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DETROIT, MICH.

MICHIGAN GAS ASSOCIATION.

Officers.

PRESIDENT,	- - - - -	S. E. WOLFF.
VICE-PRESIDENT,	- - - - -	E. F. LLOYD.
SECRETARY AND TREASURER,	- - - - -	H. W. DOUGLAS, ANN ARBOR, MICH.

ANNUAL MEETING.—Third Wednesday in September.

HONORARY MEMBERS.

E. C. Brown, New York City.	E. P. Callender, New York City.
Alfred H. White, Ann Arbor, Mich.	E. D. Campbell, Ann Arbor, Mich.
C. H. Raynor, Adrian, Mich.	

ACTIVE MEMBERS.

Arnold, C. F., Saginaw, Mich.	Hester, J. G., City of Flint, Mich.
Arnold, W. T., Saginaw, Mich.	Hewitt, J. C., Bay City, Mich.
Barthold, W. H., Grand Rapids, Mich.	Hodenpyl, Anton G., Saginaw, Mich.
Bates, T. A., Greenville, Mich.	Howden, F. J., Muskegon, Mich.
Baxter, Isaac C., Detroit, Mich.	Howden, J. J., Muskegon, Mich.
Blower, Frank W., Kalamazoo, Mich.	Hubbard, G. H., Ann Arbor, Mich.
Bowne, B. D., Marshall, Mich.	Hyde, Henry H., Racine, Wis.
Briggs, L. D., Mt. Pleasant, Mich.	Jones, T. C., Delaware, O.
Burnett, Geo. S., Lansing, Mich.	Jones, Thos. J., Lansing, Mich.
Burns, J. H., Cadillac, Mich.	Knight, John J., Kalamazoo, Mich.
Butterworth, Irwin, Detroit, Mich.	Light, J. Grant, Hillsdale, Mich.
Calhoun, Robert, Leavenworth, Kan.	Lloyd, A. G., Detroit, Mich.
Calkins, J. M., Big Rapids, Mich.	Lloyd, Ernest F., Detroit, Mich.
Camburn, Geo. M., Adrian, Mich.	Loutit, W. H., Grand Haven, Mich.
Challiss, Paul, Battle Creek, Mich.	Louvett, E. C., Chicago, Ill.
Chamberlain, G. R., Grand Rapids, Mich.	Lynn, John R., Portsmouth, O.
Church, L., Flint, Mich.	Lynn, J. T., Detroit, Mich.
Cobb, B. C., Detroit, Mich.	McIlhenny, J. D., Philadelphia, Pa.
Cook, W. S., Petoskey, Mich.	Mershon, C. E., Bay City, Mich.
Cressler, A. D., Ft. Wayne, Ind.	Miller, Alten S., Ravenswood, L. I. City, N. Y.
Davis, Emory P., Mt. Clemens, Mich.	Morgans, Florence E., Pontiac, Mich.
Dawes, Beman G., Lansing, Mich.	Morgans, W. H., Pontiac, Mich.
Dame, A. N., Kalamazoo, Mich.	Morley, G. B., Saginaw, Mich.
Dean, Sedgwick, Ann Arbor, Mich.	Morris, H. C., Bay City, Mich.
Dewey, W. F., Detroit, Mich.	Munroe, Stephen L., Grand Haven, Mich.
Dickerman, J. J., Benton Harbor, Mich.	Neuendorf, Charles, Saginaw, W. S., Mich.
Dorr, T. E., Saginaw, Mich.	Owens, J. H., Cadillac, Mich.
Doty, Paul, Detroit, Mich.	Pelton, F. B., Bowling Green, O.
Douglas, Henry W., Ann Arbor, Mich.	Perkins, B. W., South Bend, Ind.
Duffy, I. N., Ann Arbor, Mich.	Peter, J. B., Saginaw, Mich.
Eaton, J. R., Jackson, Mich.	Potter, F. H., Saginaw, Mich.
Eaton, W. M., Grand Rapids, Mich.	Ray, Robert S., Windsor, Ont., Canada.
Ewing, A. P., Detroit, Mich.	Robinson, Benj. C., Ypsilanti, Mich.
Findley, J. H., Charlotte, Mich.	Roper, Geo. D., Rockford, Ill.
Forbes, Chas., London, Ont., Canada.	Runyan, A. C., South Haven, Mich.
Frazer, D. H., Battle Creek, Mich.	Russell, Herman, San Francisco, Cal.
Freese, F. W., Fort Wayne, Ind.	Schaddelee, Richard, Albion, Mich.
Freese, S. C., Bloomington, Ind.	Schacklette, R., Adrian, Mich.
Friedrich, A. V., Traverse City, Mich.	Sherriff, F. E., Ft. Wayne, Mich.
Frost, W. H., Delray, Mich.	Sloan, J. C., Port Huron, Mich.
Fulton, J. L., Lansing, Mich.	Speer, R. L., Lansing, Mich.
Gale, A. A., Albion, Mich.	Sterling, J. C., Monroe, Mich.
Gallagher, E. F., Ionia, Mich.	Stits, H. B., Detroit, Mich.
Guiteau, T. B., Toledo, O.	Tippy, B. O., Detroit, Mich.
Haines, Jansen, Des Moines, Ia.	Tippy, C. W., Detroit, Mich.
Hamilton, Claude, Saginaw, Mich.	Traver, Alva F., Grand Rapids, Mich.
Harvey, T. A., Saginaw, Mich.	Turner, Geo. C., Coldwater, Mich.
Harris, Geo. E., Marshall, Mich.	Van Ostrend, S., South Haven, Mich.
Hellen, Frank, Detroit, Mich.	Walbridge, Henry D., Grand Rapids, Mich.
Hellen, John, Detroit, Mich.	Walker, L. E., Lansing, Mich.
Hellen, Wm., Detroit, Mich.	Wallace, R. C., Hamilton, Ont., Can.
Hess, Frank H., Marion, O.	Ward, Wm. L., Saginaw, Mich.

"I would state that the **Welsbach** System of Street Lighting that was installed in this city in June, 1898, has proved entirely satisfactory to this Department."

(Signed) WILLIAM D. LANG, Superintendent of Lamps, Boston. Mass.

See advertisement, page xx.

West, Wm. D., Port Huron, Mich.
 Webber, H. B., Ionia, Mich.
 Whalen, T., Jackson, Mich.
 Willson, Jas. C., Flint, Mich.

Woodbury, Edward, Kalamazoo, Mich.
 Wolff, S. E., Jackson, Mich.
 Young, Peter, Detroit, Mich.
 Zwisler, A. L., Kalamazoo, Mich.

ASSOCIATE MEMBERS.

Alcott, F. L., Cleveland, O.
 Angell, G. H., Detroit, Mich.
 Auger, H. B., Detroit, Mich.
 Auger, R. H., Detroit, Mich.
 Barnes, T. R.
 Bartlett, F. V., Detroit, Mich.
 Baxter, H. G., Chicago, Ill.
 Best, F. W., Brooklyn, N. Y.
 Birchmore, W. F., Chicago, Ill.
 Blinks, Walter M., Kalamazoo, Mich.
 Cameron, G. D.
 Clark, H. F., Chicago, Ill.
 Collins, D. J., Drexel Building, Phila., Pa.
 Conroy, J. P., Battle Creek, Mich.
 Corbus, F. G., Chicago, Ill.
 Cressler, G. H., Ft. Wayne, Ind.
 Cunningham, J. R., Cleveland, O.
 Dean, E. M., Grand Rapids, Mich.
 Dell, John, St. Louis, Mo.
 Dwyer, F. T., Detroit, Mich.
 Eaton, Alfred B., Chicago, Ill.
 Foley, Jas. E.
 Guldlin, O. N., Ft. Wayne, Ind.
 Harper, H. D., Chicago, Ill.
 Henderson, E. H., Pittsburg, Pa.
 Herrick, J. H., London, Ont., Can.
 Hoagland, E. H., Chicago, Ill.
 Holmes, F., Detroit, Mich.
 Hoffmann, J. G., Detroit, Mich.
 Humphreys, A. H., Kalamazoo, Mich.
 Humphreys, E. C., Columbus, O.

Jacobs, Chas. H., Detroit, Mich.
 Jenks, L. B.
 Kinden, Chas. A., Milwaukee, Wis.
 Knowlson, A. T., Detroit, Mich.
 Lawrence, F. R., Detroit, Mich.
 Lea, Henry L., Fort Wayne, Ind.
 Leakey, N. A., Detroit, Mich.
 Lindsey, C. R., Chicago, Ill.
 Lynch, Geo. W., Detroit, Mich.
 Martin, Geo. H., Cleveland, O.
 Mason, C. T., Chicago, Ill.
 McNary, J. B., Windsor, Ont.
 Millikan, A. F., Chicago, Ill.
 Murray, W.
 Osius, George, Detroit, Mich.
 Persons, F. R., Toledo, O.
 Printz, C. H., St. Louis, Mo.
 Rue, G. W., Rockford, Ill.
 Russell, D. R., St. Louis, Mo.
 Sales, M. W., Detroit, Mich.
 Stacy, A. J., Cincinnati, O.
 Stebbins, E. S.
 Steinwedell, W. E., Cleveland, O.
 Stratton, S. S., Chicago, Ill.
 Strain, J. R., Cleveland, O.
 Sweepe, H. C., Kalamazoo, Mich.
 Van Wie, E. G., Detroit, Mich.
 Weston, J. A., Detroit, Mich.
 Whirl, John J., Detroit, Mich.
 Wickham, Leigh, St. Louis, Mo.

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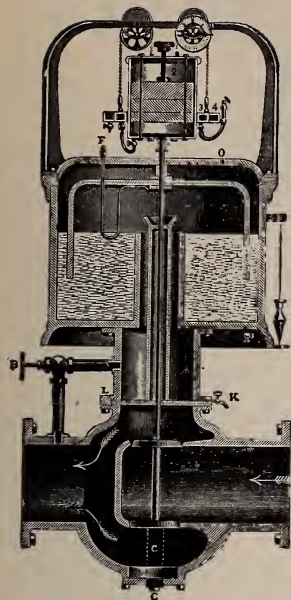
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Automatic, Balance and Service Gas Gov-
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VALVES AND COCKS
GAS SERVICE, METER AND
GAS STOVE COCKS

EVERYTHING IN CONNEC-
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WATER AND OIL

PIPE CUT UP TO 18 INCHES TO SKETCH

Agents for: "ALLEN" AIR AND VACUUM VALVES
EASTWOOD HIGH PUESSURE STEAM VALVES
DARLING HIGH PRESSURE GATE VALVES

Strictly Wrought Iron Pipe Cast Iron Universal Gas Pipe

CAST AND WROUGHT IRON FITTINGS
CAST IRON UNIVERSAL FITTINGS
MALLEABLE IRON FITTINGS

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Streets

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PHILADELPHIA, PA., U. S. A.

PIPE SHOP:
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PENN GAS COAL COMPANY

Operating Seven Mines on the P. R. R. and B. & O. R. R.
In the celebrated IRWIN (Westmoreland) field. Tidewater and
all-rail shipments. Sulphur and Ash LOWER than in any
other gas-coal, and Volatile matter HIGHER.

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Adam Weber Sons.

Works:

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New York City

Depot and Warehouse, 639 E. 15th St., New York City

Erection of Modern Coal Gas Plants, with either horizontal, inclined
or vertical retorts.

PATENTS
APPLIED FOR

- No. 1. Firing horizontal benches with pulverized fuel, with either
8 or 10 retorts in one setting, using one furnace for two
benches. Great saving in labor, fuel and life of retorts and
settings. No elaboration or complex recuperation.
- No. 2. Independent retort settings taking all weight from retorts.
- No. 3. Vertical retorts with vertical charge and discharge.

16 RETORTS IN ONE BENCH.

MODERN BENCH IRON WORK

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JOHN P. HARBISON,
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ROBERT B. TABER,
CHARLES F. PRICHARD,

HORACE A. ALLYN,
WILLIAM A. WOOD,
CHARLES H. NETTLETON,
CHARLES D. LAMSON,
SAMUEL J. FOWLER,
WALTER R. ADDICKS,
WALDO A. LEARNED.
WM. E. MCKAY.

ANNUAL MEETINGS—Third Wednesday in February at Boston.

HONORARY MEMBERS.

*Joseph R. Thomas, New York, N. Y.
Gen. Andrew Hickenlooper, Cincinnati, O.
Emerson McMillin, New York, N. Y.
Col. Frederick S. Benson, Brooklyn, E. D., N. Y.
*Eugene Vanderpool, Newark, N. J.
*William W. Greenough, Boston, Mass.
Capt. William Henry White, New York, N. Y.

*George D. Cabot, Lawrence, Mass.
Col. James H. Armington, Riverside, R. I.
Austin C. Wood, Syracuse, N. Y.
Thomas F. Rowland, Brooklyn, N. Y.
*William A. Stedman, Brooklyn, N. Y.
A. B. Slater, Providence, R. I.
Wm. H. Bradley, New York, N. Y.

ACTIVE MEMBERS.

Addicks, Walter R., Boston, Mass.
Africa, Walter G., Manchester, N. H.
Alden, George A., Watertown Mass.
Allen, B. J., Allston, Mass.
Allyn, Horace A., East Cambridge, Mass.
Amory, Dr. Robert, Boston, Mass.
Anderson, William, East Boston, Mass.
Anthony, A. C., Providence, R. I.
Barnes, W. I., Providence, R. I.
Barnum, D. D., Worcester, Mass.
Bartlett, Lewis, Cottage City, Mass.
Bill, B. P., Montpelier, Vt.
Blodget, C. W., Providence, R. I.
Boardman, Henry, Bangor, Me.
Bradley, William H., New York, N. Y.
Brockington, F. T., Leominster, Mass.
Brown, J. S., Clinton, Mass.
Burrill, D. F., Portsmouth, N. H.
Bush, Robert W., Brooklyn, N. Y.
Butterworth, C. W., St. Albans, Vt.
Cabot John, New York, N. Y.
Campbell, A. J., Norwich, Conn.
Carson, F. H., Laconia, N. H.
Cathels, Edmund, Providence, R. I.
Cheney, H. N., Boston, Mass.
Clark, Walton, Philadelphia, Pa.
Church, J. F., Willimantic, Conn.
Coffin, Isaiah E., Providence, R. I.
Coffin, John A., Gloucester, Mass.
Coggs, H. F., Fitchburg, Mass.
Cook, Ralph W., Providence, R. I.

Cooper, Arthur F., Exeter, N. H.
Cowperthwaite, George E., Danbury, Conn.
Coyle, Patrick, Charlestown, Mass.
Crafts, Harry C., Northampton, Mass.
Crawford, R., Stamford, Conn.
Darbee, William, Norwalk, Conn.
Davis, F. R., Athol, Mass.
Dickens, James, Newburyport, Mass.
Dickerson, Arthur T., Rockville, Conn.
Dole, C. E., Bangor, Me.
Earle, A. G., Bristol, R. I.
Eccles, A. D., Ware, Mass.
Ellis, J. W., Providence, R. I.
Erhard, Theodore, Cambridge, Mass.
Farnum, George W., Lowell, Mass.
Fairbanks, F. P., Holyoke, Mass.
Fish, R. C., Taunton, Mass.
Fowler, Samuel J., Charlestown, Mass.
Frost, Charles T., Plymouth, Mass.
Frost, William H., Fort Scott, Kan.
Gerdinier, C. A., Bridgeport, Conn.
Gerdinier, Charles M., Bridgeport, Conn.
Gerould, C. L., Galesburg, Ill.
Gifford, Charles H., New Bedford, Mass.
Gifford, N. W., New Bedford, Mass.
Gillette, Sanford E., Danvers, Mass.
Gillmor, Ogden, Norwich Conn.
Gould, J. A., Boston, Mass.
Gould, V. K., Bangor, Me.
Goulding, Norman O., Natick, Mass.
Graf, Carl H., Hackensack, N. J.
Greenough, Malcolm S., Cleveland, O.
Hallett, Joseph L., New York, N. Y.

*Deceased.

The **Welsbach** STREET LIGHT is now extensively used on many of the principal streets of New York City. See advertisement, page xx.

Hanford, L. C., Norwalk, Conn.
 Harbison, John P., Hartford, Conn.
 Hassett, Edward J., Beverly, Mass.
 Hawkin, Thomas, Rockland, Me.
 Hayden, W. H., New York, N. Y.
 Hintze, Thomas H., Lowell, Mass.
 Hirt, L. J., Everett, Mass.
 Humphreys, A. C., New York, N. Y.
 Humphreys, C. J. Russell, Lawrence, Mass.
 Humphreys, J. J., Jr., Worcester, Mass.
 Hurlburt, Samuel, Norwich, Conn.
 Jenks, Z. M., Woonsocket, R. I.
 Jennings, Frank W., South Framingham, Mass.
 Johns, L. B., Hyde Park, Mass.
 Jones, Edward C., San Francisco, Cal.
 Kelley, Henry H., Waltham, Mass.
 Lamson, Charles Dudley, Worcester, Mass.
 Lane, F. H., Charlestown, S. C.
 Lawrence, W. F., Ravenswood, L. I. City, N. Y.
 Lawson, William H., Rutland, Vt.
 Learned, Charles A., Meriden, Conn.
 Learned, Everett C., New Britain, Conn.
 Learned, Waldo A., Newton, Mass.
 Leland, G. B., Norwich, Conn.
 Leonard, Charles F., Fall River, Mass.
 Lomax, C., Everett, Mass.
 Long, Robert J., West Point, N. Y.
 Lucey, F. J., Natick, Mass.
 Luther, W. J., Attleboro, Mass.
 McGregor, William, Pawtucket, R. I.
 McKay, William E., Boston, Mass.
 McKnight, G., Athol, Mass.
 McQuesten, Wm. M., Lawrence, Mass.
 Mace, F. W., Lynn, Mass.
 Macmun, George F., Schenectady, N. Y.
 Macomber, George E., Rockland, Me.
 Manchester, George L., Easthampton, Mass.
 Manchester, J. Howard, Bristol, R. I.
 Mansfield, George W., Salem, Mass.
 Miles, Charles H., Lexington, Mass.
 Miller, Carroll, Chicago, Ill.
 Milne, John D., Norwalk, Conn.
 Monks, Richard J., Boston, Mass.
 Mooney E. B., Brockton, Mass.
 Moore, David, Salem, Mass.
 Morrison, H. K., Concord, N. H.
 Morse, Charles W., Amesbury, Mass.
 Moynahan, J. F., Arlington, Mass.
 Nettleton, Charles H., Derby, Conn.
 Norcross, J. A., New Haven, Conn.
 Norton, Harry A., Boston, Mass.
 Norton, Walter F., Nashua, N. H.
 Norton, P. T., Nashua, N. H.
 Nute, Joseph E., Fall River, Mass.
 Nutter, E. J., Milford, Mass.
 Nutter, J. J., Milford, Mass.
 Nutting, Charles H., Chicopee, Mass.
 Parker, F. H., Burlington, Vt.
 Polk, R. W., Rutland, Vt.
 Philbrick, J. E., Brockton, Mass.
 Prichard, Charles F., Lynn, Mass.
 Purington, A. J., Palmer, Mass.
 Quinn, Andrew K., Newport, R. I.
 Richardson, Frank S., North Adams, Mass.
 Rossman, George M., Keene, N. H.
 Sargent, Fred. H., Lawrence, Mass.
 Shaw, Herbert S., Webster, Mass.
 Shelton, Frederick H., Philadelphia, Pa.
 Sherman, Charles D., New Haven, Conn.
 Sherman, F. C., New Haven, Conn.
 Slade, R. E., Hartford, Conn.
 Slater, Alpheus B., Jr., Bridgeport, Conn.
 Slater, H. C., Eddystone, Pa.
 Smith, C. E., Torrington, Conn.
 Snow, William H., Holyoke, Mass.
 Spaulding, Charles F., Waltham, Mass.
 Spaulding, Charles S., Newburyport, Mass.
 Spaulding, William H., Westerly, R. I.
 Spear, James N., So. Boston, Mass.
 Spear, John Q. A., Dorchester, Mass.
 Stearns, Walter M., Waltham, Mass.
 Stevens, C. F., Haverhill, Mass.
 Stone, Arthur F., Chelsea, Mass.
 Stratton, W. K., Haverhill, Mass.
 Taber, Robert B., Burlington, Vt.
 Tait, F. M., New London, Conn.
 Tenny, A. B., Everett, Mass.
 Terry, F. L., New Britain, Conn.
 Thayer, William F., Westfield, Mass.
 Thompson, C. F., Brattleboro, Vt.
 Tilton, D. D., Newburyport, Mass.
 Todd, John R., Revere, Mass.
 Travis, F. M., New Haven, Conn.
 Walker, E. M., Hyde Park, Mass.
 Walker, William L., Fitchburg, Mass.
 Waters, John A., Stamford, Conn.
 White, Charles E., Wakefield, Mass.
 Willard, Albert T., Greenfield, Mass.
 Williams, E. H., Waterbury, Conn.
 Wing, John F., Boston, Mass.
 Witherbee, E. E., New York, N. Y.
 Wood, William A., Boston, Mass.
 Woodward, Ralph, Pittsfield, Mass.
 Yorke, Eugene H., Portland, Me.
 Young, A. M., New York, N. Y.

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 Baker, Sidney E., Fall River, Mass.
 Baldwin, Charles H., Boston, Mass.
 Barnes, A. M., Cambridge, Mass.
 Barnes, F. G., New Haven, Conn.
 Blanchard, G. L., Montpelier, Vt.
 Brown, A. M., Boston, Mass.
 Brown, F. H., Waltham, Mass.
 Brown, George P., Fall River, Mass.
 Browne, A. Parker, Boston, Mass.
 Burr, Mr., New Haven, Conn.
 Burrage, Albert C., Boston, Mass.
 Campbell, N. F., Boston, Mass.
 Chandler, Frank E., Malden, Mass.
 Chaney, F. V., Boston, Mass.
 Cheney, Charles H., So. Manchester, Conn.
 Cheney, H. N., Allston, Mass.
 Chisholm, C. F., Revere, Mass.
 Coburn, Cyrus M., Chelsea, Mass.
 Cortis, D. T., Boston, Mass.
 Davidson, Roland A., Allston, Mass.
 Davis, Frederick J., Waltham, Mass.
 Dickel, W. L., Boston, Mass.
 Dowst, F. B., Jamaica Plain, Mass.
 Dunbar, Albert, Dorchester, Mass.
 Farrington, Alfred N., Boston, Mass.
 Finn, George H., Boston, Mass.
 Fiske, John T., Concord, N. H.
 Fraser, E. B., Lynn, Mass.
 Fuessenich, F. F., Torrington, Conn.
 Garcia, E., Boston, Mass.

Extract from report of Brooklyn Parks :

"The **Welsbach** Lights are better adapted for Park Roads, being closer to the ground and free from shadows, and giving a clear, straight, white light." See advertisement, page xx.

Gardner, William Howard, Jr., Boston, Mass.
 Greims, O. F., Sydney, Cape Breton, Can.
 Griswold, C. S., Meriden, Conn.
 Hall, A. S., East Boston, Mass.
 Hamlin, Herman R., Boston, Mass.
 Hinman, Charles W., Charlestown, Mass.
 Holmes, Rufus E., Winsted, Conn.
 Huestis, Frank C., Cambridge, Mass.
 Humphreys, Frank W., New Haven, Conn.
 Jellerson, S. O., Boston, Mass.
 Kerr, J. B., Dedham, Mass.
 Langworth, F. A., New Haven, Conn.
 McKenney, W. A., Boston, Mass.
 Mack, C. A., Boston, Mass.
 Macmun, George F., Jr., Marlboro, Mass.
 Mason, Vinton W., Cambridge, Mass.
 Meinshausen, H., Chelsea, Mass.
 Merritt, Charles H., Danbury, Conn.
 Montgomery, J. K., Chelsea, Mass.
 Motley, G. S. Lowell, Mass.
 Nichols, William B., Roxbury, Mass.
 Norton, A. E., Boston, Mass.
 Osborne, R., Boston, Mass.
 Piser, Theo. H., Boston, Mass.

Potter, P. J., Boston, Mass.
 Pratt, Frank S., Boston, Mass.
 Richards, J. L., Boston, Mass.
 Ruggles, Charles S. J., Gardner, Mass.
 Russell, D. B., South Boston, Mass.
 Scranton, George H., Derby, Conn.
 Sprague, Phineas W., Boston, Mass.
 Stafford, W. K., Newton, Mass.
 Starkweather, R. M. Northampton, Mass.
 Thomas, F. W., Boston, Mass.
 Thompson, F. de V., Springfield, Mass.
 Tobey, Franklin, Jr., Kingston, N. Y.
 Todd, Robert, Dedham, Mass.
 True, H. W., Allston, Mass.
 Tucker, C. A., New Haven, Conn.
 Tufts, Joseph P., Boston, Mass.
 Waldo, Charles S., Boston, Mass.
 Waldo, J. Adan, Boston, Mass.
 Wardwell, William R., Boston, Mass.
 Warr, W., Boston, Mass.
 White, H. E., New Haven, Conn.
 Wilder, Charles C., Newton, Mass.
 Wood, G. B., Boston, Mass.

Established 1858.

Incorporated 1890.

J. H. GAUTIER & CO.

JERSEY CITY, N. J.

MANUFACTURERS OF

**Gas Retorts, Settings,
Fire Bricks, Etc., Etc.**

OF THE HIGHEST GRADE

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ENGINEERS AND
CONTRACTORS

ELECTRIC RAILWAYS, LIGHT, POWER
AND HYDRAULIC PLANTS

52 William Street

NEW YORK

Quintard Iron Works Co.

FOOT OF 12TH STREET, EAST RIVER, NEW YORK.

MANUFACTURERS OF
GAS APPARATUS.

Plans and Estimates Furnished
— for —
Extension of Gas Plants or
Construction of New Works.

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Manager and Treas.
EMAUS, PA.



JOHN DONALDSON
President
Betz Building, PHILA., PA.

EMAUS PIPE FOUNDRY

DONALDSON IRON COMPANY

MANUFACTURERS OF

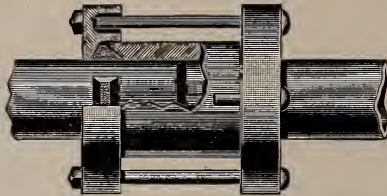
CAST IRON PIPE

And Special Castings for Water and Gas, also Flange Pipe and Lamp Posts

EMAUS, LEHIGH CO., PA.

THE "DAYTON" COUPLING

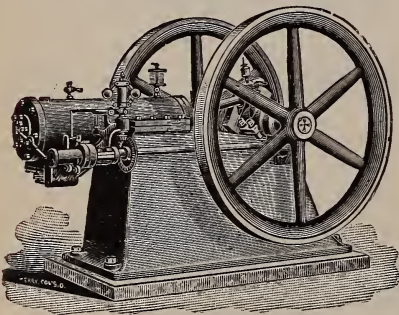
TEES, ELBOWS, CROSSES
SPLIT SLEEVES
PIPE CLAMPS



PIPE SADDLES, WELL
PACKERS and
GAS APPLIANCES

DAYTON PIPE COUPLING CO.

DAYTON, OHIO, U. S. A.



3-250 Horse Power

COLUMBUS GAS ENGINES

COLUMBUS MACHINE CO.

COLUMBUS, OHIO

Send for Catalogue 20

R. WILLIAMSON, President.

CHAS. E. UMMACH, Sec'y and Treas.

R. WILLIAMSON & CO. (Inc.)

GENERAL OFFICE AND FACTORY:

452-454 Milwaukee Ave., 197-199 N. Curtis St.

SALES DEPT.:

52-54 Lake St., Chicago, Ill.

MANUFACTURERS OF

Gas, Electric and Combination Fixtures, Staple Gas Fittings and Brackets

JOBBER OF GAS AND ELECTRIC GLASSWARE AND ALL KINDS OF
MISCELLANEOUS GOODS FOR HOUSE LIGHTING

We make a specialty of catering to the Gas and Electric Light Company trade, being in a position to furnish goods of every description. We guarantee our goods to be perfect. Carry a large stock, insuring prompt shipments. We Solicit your Trade!
(Catalogue furnished upon application.)

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VICE-PRESIDENT,	- - - - -	DONALD McDONALD.
SECRETARY AND TREASURER,	- - - - -	T. C. JONES, DELAWARE, O.

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EUGENE PRINTZ,	- - - - - 1888	W. C. BOYLE,	- - - - - 1898
THOMAS WOOD,	- - - - - 1889	*B. P. HOLMES, Elected for	- - - - - 1899
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J. W. R. CLINE,	- - - - - 1895	JOHN D. McILHENNY,	- - - - - 1904

Question Box,

HENRY L. DOHERTY, Editor, New York, N. Y.

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B. W. PERKINS, Editor, South Bend, Ind.

Progress Dep't,

IRVIN BUTTERWORTH, Editor, Detroit, Mich.

Wrinkle Dep't,

E. E. EYSENBACH, Editor, St. Paul, Minn.

Past Secretaries.

JOSEPH M. BATE, 1884-85. IRVIN BUTTERWORTH, 1886-93. A. P. LATHROP, 1894-98.

NEXT ANNUAL MEETING.—Third Wednesday in March, 1905, at Pittsburg, Pa.

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John P. Harbison, Hartford, Conn.
Geo. D. Ramsdell, New York City.
Geo. W. Graeff, Philadelphia, Pa.
M. S. Greenough, Cleveland, O.
Emerson McMillin, New York City.

F. E. Barker, Boston, Mass.
E. C. Brown, New York City.
Alex. C. Humphreys, New York City.
Andrew Hickenlooper, Cincinnati, O.
B. E. Chollar, Kansas City, Mo.

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Abell, H. C., Denver, Colo.
Addicks, Walter R., New York, N. Y.
Alcott, F. L., Cleveland, O.
Allen, G. A., Zanesville, O.
Andrews, C. W., Duluth, Minn.
Andrews, J. C., Denver, Colo.
Armstrong, F. S., Macomb, Ill.
Arthur, W. A., Spencer, Mass.
Arthur, Chester L., Cleveland, O.
Atwood, C. Chas., Ravenswood, N. Y.
Auner, H., London, O.
Ayers, A. D., Keokuk, Ia.
Backus, Q. S., Williamsport, Pa.
Bacque, L. H., Three Rivers, Canada.
Baehr, Wm. A., St. Louis, Mo.
Baldwin, W. S., Detroit, Mich.
Barbour, W. T., Detroit, Mich.
Barnard, F. F., Wilmington, O.
Bash, H. C., Fayetteville, N. C.
Barnes, Geo. W., Pittsburg, Pa.
Barthold, W. H. Grand Rapids, Mich.
Baxter, Isaac C., Detroit, Mich.
Beam, Frank L., Columbus, O.
Beadle, A. B., Philadelphia, Pa.
Beal, T. B., Newburgh, N. Y.
Beckwith, J. W., Oberlin, O.

Bell, R. Fulton, N. Y.
Bender, W. E., Hamilton, O.
Bernstein, S., New York City.
Bigelow, L. S., New York, N. Y.
Bill, B. P., Montpelier, Vt.
Binkley, F. C., Chicago, Ill.
Blanchard, H., Mendota, Ill.
Blinks, W. M., Kalamazoo, Mich.
Blinn, A. C., Sandusky, O.
Block, B., New York, N. Y.
Blower, Frank W., Kalamazoo, Mich.
Boal, S., Piqua, O.
Boone, C., Ravenswood, N. Y.
Booth, Miller, Bellaire, O.
Boyle, W. C., Salem, O.
Bredel, Fred., Milwaukee, Wis.
Brady, J. T., Denver, Colo.
Brooks, F. F., Charleston, Ill.
Brooks, W. S., Cincinnati, O.
Brown, W. E., New Westminster, B. C.
Buck, Earl H., Vincennes, Ind.
Butterworth, Irvin, Detroit, Mich.
Byers, C. A., Toledo, O.
Callender, E. P., New York City.
Callanan, J. M., Chester, Pa.
Canterbury, John P., Ironton, O.
Carpenter, H. A., Pittsburg, Pa.
Cardall, J. H., Huntsville, Ala.
Cartwright, H. R., Philadelphia, Pa.

*Deceased.

Owing to the shape of the Welsbach Mantle, the illumination of the street from an IMPROVED **Welsbach STREET LIGHT** is equal in every direction. This is not the case with other methods of lighting. See advertisement, page xx.

- Cavanagh, Frank, Cleveland, O.
 Chambers, N. J., Montgomery, Ala.
 Chase, Louis, Chicago, Ill.
 Clapp, G. N., Middletown, O.
 Clark, H. F., Decatur, Ill.
 Clark, G. M., Chicago, Ill.
 Clark, Walton, Philadelphia, Pa.
 Clausings, W. F., Portsmouth, O.
 Cobb, B. C., Saginaw, Mich.
 Cochran, H. J., Maysville, Ky.
 Collins, W., Stamford, Conn.
 Collins, David D., Philadelphia, Pa.
 Congdon, R. C., Frederick, Md.
 Connelly, J. S., Titusville, Pa.
 Coombs, Fred. S., Youngstown, O.
 Coombs, Moses, Youngstown, O.
 Coons, W. V., Findlay, O.
 Cooper, W. H., Amsterdam, N. Y.
 Copley, I. C., Aurora, Ill.
 Corbus, F. G., Cleveland, O.
 Cowperthwait, B. W., Fairbault, Minn.
 Cowdery, E. G., St. Louis, Mo.
 Cressey, F. A., Jr., Modesto, Calif.
 Cressler, A. M., Fort Wayne, Ind.
 Cressler, G. H., Fort Wayne, Ind.
 Cressler, A. D., Ft. Wayne, Ind.
 Critchfield, Chas. V., Hillsboro, O.
 Critchlow, E. C., Elwood, Md.
 Cross, P., Denver, Colo.
 Cullinane, J. R., Denison, Tex.
 Curtis, S. P., Philadelphia, Pa.
 Dales, J. M., Lincoln, Neb.
 Daley, E. M., Haverhill, Mass.
 Daly, M. B., Cleveland, O.
 Daniels, J. M., Columbus, S. C.
 Daugherty, George, Warren, O.
 Davidson, J., Ironton, O.
 Davis, C. R., Noblesville, Ind.
 Davis, E. H., Lewistown, Pa.
 Davis, S. S., Moline, Ill.
 Dawes, Bemen G., Newark, O.
 DeArmon, Charles W., Piqua, O.
 Dell, John, St. Louis, Mo.
 Dewey, V. F., Detroit, Mich.
 Dickey, Charles H., Baltimore, Md.
 Dickey, E. S., Baltimore, Md.
 Dickey, Phillip S., Chicago, Ill.
 Dickey, R. R., Dayton, O.
 Dickerson, J. N., Dunkirk, N. Y.
 Dixon, J. S., Utica, N. Y.
 Doherty, Henry L., New York City.
 Dole, H. N. P., Columbus, O.
 Dolph, A. M., Cincinnati, O.
 Doty, P., Denver, Colo.
 Douglas, Henry W., Ann Arbor, Mich.
 Douthirt, W. F., New York City.
 Drouillard, G. L., Cincinnati, O.
 Dunbar, James W., New Albany, Ind.
 Dwyer, Francis T., Detroit, Mich.
 Eaton, A. B., Chicago, Ill.
 Eilbeck, A. B., Akron, O.
 Elles, E. S., Evansville, Ind.
 Eustace, E. W., Peoria, Ill.
 Evans, Chas. H., Chicago, Ill.
 Eysenbach, Ernest E., St. Paul, Minn.
 Eyman, L. E., Pueblo, Colo.
 Faben, C. R., Jr., Toledo, O.
 Faller, G. W., Madison, Wis.
 Feurtado, R. S., Chicago, Ill.
 Ferguson, B. B., Portsmouth, Va.
 Field, R. A., Rome, N. Y.
 Field, Frank H., Columbus, O.
 Forbes, James, Chattanooga, Tenn.
 Forstall, Alfred E., New York City.
 Foster, B. P., Norwalk, O.
 Franklin, H. C., Norwood, O.
 Franklin, John, Cincinnati, O.
 Funkhouser, E. M., Staunton, Va.
 Frost, W. H., Delray, Mich.
 Frueauff, F. W., Denver, Colo.
 Ganzer, H. H., Norristown, Pa.
 Garard, J. W., Columbus, O.
 Gardner, W. H., Valparaiso, Ind.
 Garrison, F. L., Cincinnati, O.
 Gartley, W. H., Philadelphia, Pa.
 Gassett, A. L., Detroit, Mich.
 George, William B., Covington, Ky.
 Gillette, J. W., Phoenixville, Pa.
 Gillespie, Jos., Washington, C. H., O.
 Gillette, Melville M., Newark, O.
 Gould, V. K., Bangor, Me.
 Graf, C. H., Detroit, Mich.
 Gray, A. Ross, Bradford, Pa.
 Green, James, St. Louis, Mo.
 Gregory, John M., Bellefontaine, O.
 Gribbel, W. S., New York City.
 Guldin, O. N., Ft. Wayne, Ind.
 Gwynn, J. W., Bucyrus, O.
 Hagerty, J. H., Americus, Ga.
 Hague, W., Tidoute, Pa.
 Hall, A. F., Southbridge, Mass.
 Haines, Jansen, Des Moines, Ia.
 Hamlink, L. C., St. Louis, Mo.
 Hammon, W. H., Columbus, O.
 Hanley, E. W., Dayton, O.
 Harper, H. D., Chicago, Ill.
 Harris, J. A., Philadelphia, Pa.
 Harrop, H. B., Milwaukee, Wis.
 Hauk, Chas. D., Philadelphia, Pa.
 Hayward, S. F., New York City.
 Hedges, J. S., Mansfield, O.
 Hedges, William C., Mansfield, O.
 Helme, William E., Philadelphia, Pa.
 Hemenway, W. E., Warsaw, N. Y.
 Hendley, J. L., Beloit, Wis.
 Henderson, E. H., Pittsburg, Pa.
 Henry, W. G., Chicago, Ill.
 Hess, Frank H., Marion, O.
 Hesser, C. F., Cincinnati, O.
 Hibberd, E. G., Richmond, Ind.
 Hicks, G. C., Jr., Connersville, Ind.
 Highlands, E. M., Clinton, Ia.
 Higgins, C. M., New York City.
 Hilleke, A. F., Glassport, Pa.
 Himsworth, H. H., Denver, Colo.
 Hoffman, R. J., Bradford, Pa.
 Hodgson, J. A., Athens, Ga.
 Holmes, A. G., Pittsburg, Pa.
 Howard, C. A., Aberdeen, S. D.
 Hoyt, E. S., Detroit, Mich.
 Hughey, W. C., Denver, Colo.
 Humphreys, H. S., Kalamazoo, Mich.
 Humphrey, A. H., Kalamazoo, Mich.
 Humphreys, E. C., Cincinnati, O.
 Hyde, Gustavus A., Cleveland, O.
 Hyde, H. H., Racine, Wis.
 Jelliffe, C. N., New York City.
 Jenkins, A. F., San Antonio, Tex.
 Johns, L. B., Hyde Park, Mass.
 Johnson, J. M., Durham, N. C.
 Johnson, E. D., Connersville, Ind.
 Johnston, J. O., Columbus, O.

"The metropolitan appearance of the lamp itself, together with the clear, white, steady, powerful light, put the **Welsbach** clear in the lead of anything on the market to-day for the purpose of street lighting."

(Signed) W. W. BINGHAM, President, City Council, Omaha.

See advertisement, page xx.

- Jones, P., Salinas, Calif.
 Jones, Howard, Circleville, O.
 Jones, T. C., Delaware, O.
 Kahn, Lazard, Hamilton, O.
 Kauke, John H., Wooster, O.
 Kehoe, Frank B., Portsmouth, O.
 Kellum, Benj. J., Chicago, Ill.
 Kempf, J. Jr., Salt Lake City, Utah.
 Kenan, Norman G., Cincinnati, O.
 Kerlin, R. G., Toledo, O.
 Keutz, J. C., Dayton, O.
 Kirk, F. M., Cleveland, O.
 Kirk, D. B., Mt. Vernon, O.
 Klein, B. F., Cleveland, O.
 Knight, J. J., Kalamazoo, Mich.
 Knight, W. H., Cleveland, O.
 Koiner, C. W., Oneida, N. Y.
 Landon, Hugh McK., Indianapolis, Ind.
 Langwith, Frank A., Newark, N. J.
 Lathrop, A. P., St. Paul, Minn.
 Latta, M. N., Charlotte, N. C.
 Lea, Henry I., Fort Wayne, Ind.
 Law, A. R., Durham, N. C.
 Lawlor, R. H., Michigan City, Ind.
 Le Baron, L. W., Albuquerque, N. Mex.
 Leahey, Nathan G., Detroit, Mich.
 Letang, B. E., Jackson, Calif.
 Light, George, Dayton, O.
 Light, Joseph, Dayton, O.
 Light, E. H., Dayton, O.
 Lindsay, Chas. R., Chicago, Ill.
 Lindsey, E. C., Ravenna, O.
 Little, F. W., Peoria, Ill.
 Lloyd, Ernest F., Ft. Wayne, Ind.
 Lord, R. S., Pittsburg, Pa.
 Low, D. W., Alliance, O.
 Lynn, John R., Waterloo, Ia.
 Lynn, J. T., New York City.
 McAdam, Bryce, Milwaukee, Wis.
 McCallum, J. N., Michigan City, Ind.
 McCormack, E. T., Wilmington, O.
 McDonald, A., Erie, Pa.
 McDonald, Donald, Albany, N. Y.
 McDonald, Donald, Louisville, Ky.
 McDonald, Wm., Albany, N. Y.
 McGraw, F. J., Downingtown, Pa.
 McIlhenny, John, Philadelphia, Pa.
 McIlhenny, F. S., Philadelphia, Pa.
 McIlhenny, John D., Philadelphia, Pa.
 McLean, G., Dubuque, Iowa.
 McMahon, J. W., Toledo, O.
 McMillan, John, Conneaut, O.
 MacMillan, G., La Crosse, Wis.
 Madden, J., Greenville, Pa.
 Magee, R. S., Cincinnati, O.
 Malone, M. E., Madison, Wis.
 Maloney, A. P., Philadelphia, Pa.
 Mancourt, Edward M., Cincinnati, O.
 Mann, H. E., Cleveland, O.
 Mansur, John H., Royersford, Pa.
 Many, F. B., Cleveland, O.
 Marks, William D., Fostoria, O.
 Marks, R. J., Lexington, Ky.
 Martin, F. D., Fort Scott, Kans.
 Mason, C. T., Chicago, Ill.
 Mason, J. T., Milwaukee, Wis.
 Maxon, J. H., Gallipolis, O.
 Mayers, J. R., New York City.
 Mayer, J. L., Hazelton, Pa.
 Mayer, J., Lakewood, N. Y.
 Megie, Benj. F., Cincinnati, O.
 Miller, Alten S., New York City.
 Miller, C. O. G., San Francisco, Calif.
 Miller, R. W., Conneaut, O.
 Miller, W. H., Bangor, Me.
 Miller, Wm. A., Cincinnati, O.
 Milne, D. S., Marietta, O.
 Milsted, William N., New York, City.
 Montgomery, R., Youngstown, O.
 Moon, O. P., Lorain, O.
 Moore, E., Camden, N. J.
 Morris, D., Greenville, O.
 Morris, W. C., Ravenswood, N. J.
 Morreau, Albert, Newport, Ky.
 Moxley, G. L., Lowell, Mass.
 Moses, Frank D., Trenton, N. J.
 Mulholland, S. E., Lima, O.
 Mullen, John, J., Newport, Ky.
 Neeley, J. D. S., Lima, O.
 Nettleton, C. H., New Haven, Conn.
 Olds, H. L., Lincoln, Ill.
 Osborn, H. H., Chicago, Ill.
 Osborne, E. M., Valparaiso, Ind.
 Osius, Geo., Detroit, Mich.
 Owens, H. G., Coshocton, O.
 Palmer, L. T., Tonawanda, N. Y.
 Parker, G. W., St. Louis, Mo.
 Payne, A. L., Nelson, B. C., Canada.
 Pattrell, C. D., Mansfield, O.
 Pearson, J. R., Indianapolis, Ind.
 Pelton, B. F., Cheyenne, Wyo.
 Pennoyer, C. H., San Jose, Calif.
 Perkins, B. W., South Bend, Ind.
 Perry, A. T., Cleveland, O.
 Persons, Fred R., Toledo, O.
 Pew, J. G., Pittsburg, Pa.
 Pinkney, E. A., Sag Harbor, N. Y.
 Philipp, E. B., Columbus, O.
 Plummer, H. W., Asheville, N. C.
 Porter, J. F., Alton, Ill.
 Power, J. J., Cumberland, Md.
 Powers, E. F., Baltimore, Md.
 Powell, J. H., Upper Sandusky, O.
 Powell, Wm. R., Columbus, O.
 Pratt, E. G., Milwaukee, Wis.
 Price, C. R., New Bedford, Mass.
 Price, W. W., Dayton, O.
 Printz, Charles H., Little Rock, Ark.
 Printz, Eugene, Zanesville, O.
 Purcell, T. V., Chicago, Ill.
 Quackenbush, C. H., Ardmore, Pa.
 Reitmeyer, A. F., Perth Amboy, N. J.
 Rettew, C. H., Selma, Ala.
 Richards, F. M., Madison, Wis.
 Richardson, M. N., Cleveland, O.
 Ritschy, L. J., St. Louis, Mo.
 Ritter, Chas. S., Detroit, Mich.
 Robb, J. M., Peoria, Ill.
 Roohan, P., Saratoga Springs, N. Y.
 Roper, Geo. D., Rockford, Ill.
 Ross, J. C., Steubenville, O.
 Roycroft, T., Grand Forks, N. D.
 Russell, D. R., St. Louis, Mo.
 Sapp, D. E., Mt. Vernon, O.
 Savage, G., Chester, Pa.
 Schall, H. D., Beloit, Wis.
 Schmidt, E. G., Springfield, Ill.
 Schniewind, Dr. F., New York City.
 Schnierle, E. H., Salem, O.
 Schwarm, C. A., Hornellsville, N. Y.
 Scott, G. C., Columbus, O.
 Seamon, J. F., Rockville, Conn.

Have you seen **THE WELSBACH SYSTEM OF STREET LIGHTING** in operation? We invite examination and comparison. See advertisement, page xx.

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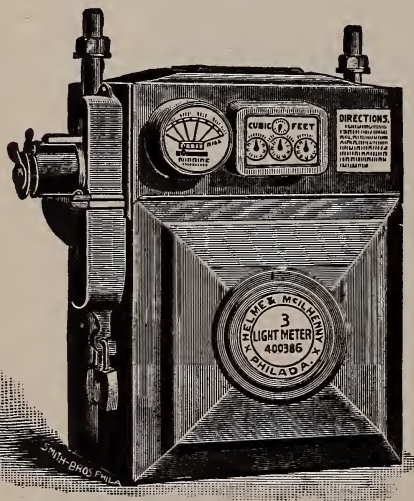
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GENTLEMEN: I am pleased to add my recommendation to your system of street lighting. From my experience of street lighting, particularly in cities where the streets abound in shade trees, I have found it vastly superior to electric lighting, and believe that it is the proper way for lighting all streets. (Signed) HENRY S. KARNY, Commissioner, City of New York, Department of Public Buildings, Lighting and Supplies.

See advertisement, page xx.

- Chubbuck, H. E., La Salle, Ill.
 Church, L., Flint, Mich.
 Clapp, G. N., Middletown, O.
 Clarke, Geo. S., Kansas City, Mo.
 Clark, Walton, Philadelphia, Pa.
 Clary, E. D., Burlington, Ia.
 Cobb, Bernard C., Saginaw, Mich.
 Cole, Wm. W., Elmira, N. Y.
 Collins, Carroll, Austin, Texas.
 Cooke, A. S., New York, N. Y.
 Copley, I. C., Aurora, Ill.
 Corscot, John, Madison, Wis.
 Carson, S., Iowa City, Ia.
 Coughlin, T. M., Vicksburg, Miss.
 Cowdery, E. G., St. Louis, Mo.
 Cowdery, R. E., Topeka, Kan.
 Cowdery, J. P., St. Paul, Minn.
 Crawford, Elmer, Sterling, Ill.
 Cressler, A. D., Ft. Wayne, Ind.
 Cross Philip, Denver, Colo.
 Danforth, George C., Hammond, Ind.
 Davis, S. S., Rock Island, Ill.
 Dawes, Rufus C., Evanston, Ill.
 Day, C. L., Chicago, Ill.
 Dell, John, St. Louis, Mo.
 Diall, M. N., Terre Haute, Ind.
 Diall, Oliver M., Macon, Ga.
 Dickey, C. H., Baltimore, Md.
 Dixon, J. A., New York, N. Y.
 Doan, Frank M., Jacksonville, Ill.
 Doherty, Henry L., Denver, Colo.
 Donohue, E., Philadelphia, Pa.
 Doty, Paul, Denver, Col.
 Dougherty, L. J., Jacksonville, Fla.
 Douglas, H. W., Ann Arbor, Mich.
 Douthirt, W. F., New York, N. Y.
 Duffield, James C., London, Ont., Can.
 Dunbar, C. H., Elgin, Ill.
 Dunbar, James W., New Albany, Ind.
 Dunham, J. C., Pensacola, Fla.
 Dunlap, H., Emporia, Kan.
 Durrett, W. T., Louisville, Ky.
 Eaton, W. M., Jackson, Mich.
 Egner, Frederick, Washington, D. C.
 Elbert, V. L., St. Paul, Minn.
 Elles, E. J., Evansville, Ind.
 Ellison, B. F., West Superior, Wis.
 Elston, J. C., Jr., Michigan City, Ind.
 Enright, J. H., Carthage, Mo.
 Eustace, E. W., Peoria, Ill.
 Eustace, John H., Chicago, Ill.
 Evans, Charles H., Chicago, Ill.
 Eysenbach, Ernest E., Columbus, O.
 Faben, Charles R., Jr., Toledo, O.
 Ferrier, James, Columbus, Ga.
 Fisher, John D., Baton Rouge, La.
 Fitch, Henry D., Bowling Green, Ky.
 Fitz, Robert F., Elgin, Ill.
 Fitzgerald, John H., Houston, Tex.
 Fitzgerald, Leonard, Cleveland, O.
 Forbes, Chas., London, Ont.
 Forbes, James, Chattanooga, Tenn.
 Forstall, A. E., New York, N. Y.
 Frazer, David Henning, Battle Creek, Mich.
 Freese, F. W., Bloomington, Ind.
 Freese, S. C., Bloomington, Ind.
 Fries, Fred., San Antonio, Tex.
 Frost, W. H., Fort Scott, Kan.
 Frueauff, Frank W., Denver, Col.
 Fullerton, George, Jr., Buffalo, N. Y.
 Gallagher, F. E., Schreveport, La.
 Gardner, W. H., Valpariso, Ind.
 Geist, C. H., Muncie, Ind.
 Gerould, Charles L., Galesburg, Ill.
 Gibbons, James, Jr., Penn Yan, N. Y.
 Gillett, Melville M., Newark, O.
 Gimper, Earle H., New Orleans, La.
 Gimper, John, Galveston, Tex.
 Glasgow, A. G., London, S. W., England.
 Glass, Sheldon J., New York City.
 Goldman, Leon, New Orleans, La.
 Goldsmith, William G., Benton Harbor, Mich.
 Goodnow, George F., Waukegan, Ill.
 Green, James, St. Louis, Mo.
 Greenough, M. S., Cleveland, O.
 Gribbel, John, Philadelphia, Pa.
 Griffin, T. M., Muncie, Ind.
 Haase, Emil, Milwaukee, Wis.
 Haines, Jansen, Des Moines, Ia.
 Harper, George H., Altoona, Pa.
 Hartman, W. E., Norfolk, Va.
 Hess, Charles E., Jefferson City, Mo.
 Highlands, E. M., Clinton, Ia.
 Highlands, S. M., Clinton, Ia.
 Horton, Thomas O., Stapleton, N. Y.
 Howard, Chas. A., Aberdeen, S. D.
 Huber, Frank, Louisville, Ky.
 Humphreys, Alex. C., New York, N. Y.
 Hyde, Gustavus A., Cleveland, O.
 Hyde, Henry H., Racine, Wis.
 Johnson, John O., Columbus, O.
 Jones, C. D., Independence, Ia.
 Jones, T. C., Delaware, O.
 Keller, C. M., Columbus, Ind.
 Kellogg, L. L., Sioux City, Ia.
 Kelly, F. W., Davenport, Ia.
 Kenan, Norman G., Cincinnati, O.
 Kennedy, J. M., Rockford, Ill.
 Kersting, Alfred F., Pittsfield, Mass.
 Kincaid, H. E., Jackson, Tenn.
 Knapp, Isaac N., Ardmore Pa.
 Knight, Charles S., Ft. Wayne, Ind.
 Knight, J. J., Kalamazoo, Mich.
 Landon, Hugh McK., Indianapolis, Ind.
 Lane, F. K., Akron, O.
 Lathrop, A. P., St. Paul, Minn.
 Leonard, W. H., Chicago, Ill.
 Light, George, Dayton, O.
 Light, Joseph, Dayton, O.
 Little, F. W., Peoria, Ill.
 Littleton, A. W., Campbell, Cal.
 Lloyd, Ernest F., Detroit, Mich.
 Logan, John D., Brooklyn, N. Y.
 Lorenz, John, Hamilton, O.
 Luther, F. E., Chicago, Ill.
 Lyman, L. E., Pueblo, Col.
 Lynn, John R., Waterloo, Iowa.
 Lynn, J. T., Detroit, Mich.
 McAdam, Bryce, Milwaukee, Wis.
 McClary, N. A., Chicago, Ill.
 McDonald, Donald, Louisville, Ky.
 McDonald, William, Albany, N. Y.
 McIlhenny, J. D., Philadelphia, Pa.
 McKay, William E., Milton, Mass.
 McKee, J. M., Meridian, Miss.
 McLean, George, Dubuque, Ia.
 McMillin, Emerson, New York, N. Y.
 Macbeth, A. B., Kansas City, Mo.
 MacKay, Charles, Watertown, Wis.
 MacMillan, George, LaCrosse, Wis.
 Mainland, William M., Oshkosh, Wis.

Beware of infringements and imitations. **THE WELSBACH STREET LIGHTING COMPANY OF AMERICA** is the sole proprietor of **THE WELSBACH SYSTEM OF STREET LIGHTING**. See advertisement, page xx.

Malone, M. E., Madison, Wis.
 Mansur, J. H., Royersford, Pa.
 Marcott, H. R., address unknown.
 Marshall, W. D., New Orleans, La.
 Martin, F. M., Taylorville, Ill.
 Maxon, J. H., Gallopolis, O.
 Mayers, Joseph Alexander, Columbus, O.
 Maynard, H. B., Ottumwa, Ia.
 Meagher, John B., Mankato, Minn.
 Meeker, Chas. A., Muncie, Ind.
 Miller, Alten S., New York, N. Y.
 Miller, Carroll, Chicago, Ill.
 Miller, Ira A., Colorado Springs, Col.
 Miller, Thomas D., New Orleans, La.
 Miller, William A., Cincinnati, O.
 Mitchell, K. M., St. Joseph, Mo.
 Mockett, W. E., Dallas, Texas.
 Moore, Northrop, Kansas City, Kan.
 Morgans, William H., Pontiac, Mich.
 Morrell, E. E., Oak Park, Ill.
 Morton, H. E., Boone, Ia.
 Moses, Frank D., Trenton, N. J.
 Murdock, George T., Elkhart, Ind.
 Murdock, James W., Joliet, Ill.
 Murdock, S. T., Lafayette, Ind.
 Murphy, Chas. A., Ottawa, Ill.
 Neeley, J. D. S., Lima, O.
 Nooland, M. A., Chicago, Ill.
 Norris, Rollin, Philadelphia, Pa.
 Nutting, C. H., Chicopee, Mass.
 Odiorne, William H., Springfield, Ill.
 Old, George, St. Augustine, Fla.
 Olds, H. L., Bloomington, Ill.
 O'Malley, P., Aurora, Ill.
 Page, Carter H., Jr., Philadelphia, Pa.
 Palmer, L. T., Tonawanda, N. Y.
 Patton, W. H., Chicago, Ill.
 Paullin, W. C., Pueblo, Col.
 Pearson, John R., Indianapolis, Ind.
 Pelton, F. K., New York City.
 Perkins, B. W., South Bend, Ind.
 Petley, B. H., Seattle, Wash.
 Planck, Joseph W., Ilion, N. Y.
 Pollitt, L. Irving, Pine Bluff, Ark.
 Porter, James F., Alton, Ill.
 Powell, W. E., Logansport, Ind.
 Pratt, E. G., Milwaukee, Wis.
 Printz, Eugene, Zanesville, O.
 Purcell, Theodore, Chicago, Ill.
 Putnam, W. R., Red Wing, Minn.
 Quinn, A. K., Newport, R. I.
 Ramsdell, George G., New York, N. Y.
 Rew, Irwin, Evanston, Ill.
 Riselay, W. S., Buffalo, N. Y.
 Rochat, Henry, Minneapolis, Minn.
 Roney, J. W., Richmond, Ill.
 Roper, George D., Rockford, Ill.
 Ross, Alex., St. Louis, Mo.
 Runner, Z. T. F., Freeport, Ill.
 Russell, John K., Sheboygan, Wis.
 Salter, James, Florence, Ala.
 Searle, R. M., Mt. Vernon, N. Y.
 Shattuck, John D., Darby, Pa.
 Shearn, J., Houston, Tex.
 Shelton, F. H., Philadelphia, Pa.
 Simpson, C. O., Birmingham, Ala.
 Slade, R. E., Lockport, N. Y.
 Slater, A. B., Jr., Ft. Wayne, Ind.
 Sloan, J. C., Quincy, Ill.
 Small, J. C., Aurora, Ind.
 Soden, W. T., Emporia, Kan.
 Somerville, James, Indianapolis, Ind.
 Sombart, W. E., Boonville, Mo.
 Speer, R. I., Little Rock, Ark.
 Spencer, I. S., Monmouth, Ill.
 Spinning, W. V., Peru, Ind.
 Springer, S. S., Leavenworth, Kan.
 Stacey, J. E., Cincinnati, O.
 Stacey, J. Frank, Nashville Tenn.
 Steinwedell, William, Quincy, Ill.
 Steinwedell, W. E., Cleveland, O.
 Stephens, A. K., Washington, N. C.
 Stephens, H. H., Macomb, Ill.
 Stiles, A. K., Streator, Ill.
 Strain, G. A., Bellevue, O.
 Summers, George, Chicago, Ill.
 Summers, L. G., Jeffersonville, Ind.
 Swann, Harry R., Louisville, Ky.
 Sweetman, M. M., Kansas City, Mo.
 Tayler, George H., Warren, O.
 Taylor, Bankson, New Orleans, La.
 Templeton, E. S., Greenville, Pa.
 Thwing, O. O., St. Louis, Mo.
 Tippy, B. O., Detroit, Mich.
 Travis, T. M., New Haven, Conn.
 Tufts, J. H., Syracuse, N. Y.
 Turner, Thomas, Charlestown, S. C.
 Vollum, Wm. H., New Orleans, La.
 Wainwright, A. V., Pittsburg, Pa.
 Walbridge, H. D., Grand Rapids, Mich.
 Wallace, William, Lafayette, Ind.
 Walker, Edwin M., Hyde Park, Mass.
 Walker, L. E., East Lansing, Mich.
 Walker, Sidney R., Bay City, Mich.
 Walsh, Jas. T., Chicago, Ill.
 Walters, Benj., Blue Island, Ill.
 Waring, Geo. H., Jr., Savannah, Ga.
 Warmington, D. R., Cleveland, O.
 Warmington, George H., Cleveland, O.
 Warnking, George, Berlin, Wis.
 West, Wm. D., Marion, O.
 Westcott, J. T., London, England.
 Wheeler, Fred B., Binghamton, N. Y.
 Wheeler, W. A. S., Natchez, Miss.
 Whipple, H. S., Rockford, Ill.
 Whysall, George H., Springfield, O.
 Williams, L. S., Harrisburg, Pa.
 Williamson, John, Chicago, Ill.
 Witherby, Edwin E., New York, N. Y.
 Woods, George E., New York, N. Y.
 Woodward, R., Pittsfield, Mass.
 Young, John, Allegheny City, Pa.
 Young, Peter, Detroit, Mich.
 Young, P. S., Jersey City, N. J.
 Young, Robert, Allegheny City, Pa.
 Young, Robert, Jr., Pittsburg, Pa.
 Zeek, Chas. F., Pensacola, Fla.

ASSOCIATE MEMBERS.

Alcott, F. L., Cleveland, O.
 Ambour, Thomas M., St. Louis, Mo.
 Barbour, W. F., Detroit, Mich.
 Barnes, George W., Pittsburg, Pa.
 Best, F. W., Brooklyn, N. Y.

Boal, Stanhope, Piqua, O.
 Brownell, E. E., Dayton, O.
 Buckley, John C., Chicago, Ill.
 Callenbach, J. A., Camden, N. J.
 Carpenter, H. A., Allegheny, Pa.

THE **Welsbach** SYSTEM distributes the light over all portions of the area illuminated. See advertisement, page xx.

Clark, George M., Chicago, Ill.
 Claybourne, Colin W., Chicago, Ill.
 Collins, D. J., Philadelphia, Pa.
 Corbus, F. G., Cleveland, O.
 Dekel, Wm. L., Boston, Mass.
 Dickey, P. S., Chicago, Ill.
 Dods, John C., St. Louis, Mo.
 Dresser, S. R., Bradford, Pa.
 Dwyer, Frank T., Detroit, Mich.
 Eaton, Alfred B., Chicago, Ill.
 Eilbeck, A. B., New York, N. Y.
 Elliott, H. J., Chicago, Ill.
 Gassett, A. L., Cleveland, O.
 Gilman, Geo. P., Chicago, Ill.
 Guldlin, O. N., Fort Wayne, Ind.
 Harper, H. D., Chicago, Ill.
 Haywood, S. F., New York, N. Y.
 Helme, William E., Philadelphia, Pa.
 Henderson, E. H., address unknown.
 Henry, W. G., Chicago, Ill.
 Higgins, C. M., New York, N. Y.
 Hinman, C. W., Charlestown, Mass.
 Humphreys, A. H., Kalamazoo, Mich.
 Isbell, Charles W., New York, N. Y.
 Jacobs, Charles H., Detroit, Mich.
 Johnson, E. D., Connersville, Ind.
 Kahn, Lazard, Hamilton, O.
 Keach, Geo. C., Chicago, Ill.
 Leakey, H. J., Detroit, Mich.
 Lee, Henry L., Ft. Wayne, Ind.
 Lindsay, Charles R., Jr., Chicago, Ill.
 Logan, William J., Brooklyn, E. D., N. Y.
 McDonald, Donald, Albany, N. Y.
 McIlhenny, John, Philadelphia, Pa.
 Marquis P. S., St. Louis, Mo.

Martin, J. H., New York.
 Mayer, F. J., Baltimore, Md.
 Merrifield, L. L., Toronto, Can.
 Milsted, W. N., New York, N. Y.
 Morava, W., Chicago, Ill.
 Mordue, T. N., Chicago, Ill.
 Mueller, Robert, Decatur, Ill.
 Osius, George, Detroit, Mich.
 Parker, G. W., St. Louis, Mo.
 Pattison, Melvin, Cleveland, O.
 Payne, F. H., Erie, Pa.
 Peterson, Carl H., Chicago, Ill.
 Persons, Fred. R., Toledo, O.
 Plantinga, Pierre, Cleveland, O.
 Platt, E. S., St. Louis, Mo.
 Prendergast, Daniel J., Philadelphia, Pa.
 Puffer, W. L., Chicago, Ill.
 Reilly, James A., Cincinnati, O.
 Russell Daniel R., St. Louis, Mo.
 Schall, H. D., Chicago, Ill.
 Shirra, J. C., Milwaukee, Wis.
 Slocum, F. L., Pittsburg, Pa.
 Stacey, A. J., Cincinnati, O.
 Stephens, J. G., Pittsburg, Pa.
 Steward, Robert Bruce, Chattanooga, Tenn.
 Strahn, Roy N., LaGrange, Ill.
 Stratton, S. S., Chicago, Ill.
 Tarvin, R. J., Cincinnati, O.
 Terhune, Charles F., New York, N. Y.
 Van Wie, E. G., Detroit, Mich.
 Vellum, B. J., Chicago, Ill.
 Weber, Oscar B., New York, N. Y.
 Whirle, J. J., Detroit, Mich.
 Wickham, Leigh, St. Louis, Mo.
 Witherden, G. N., Philadelphia, Pa.

STEAM HEAT—No BOILER

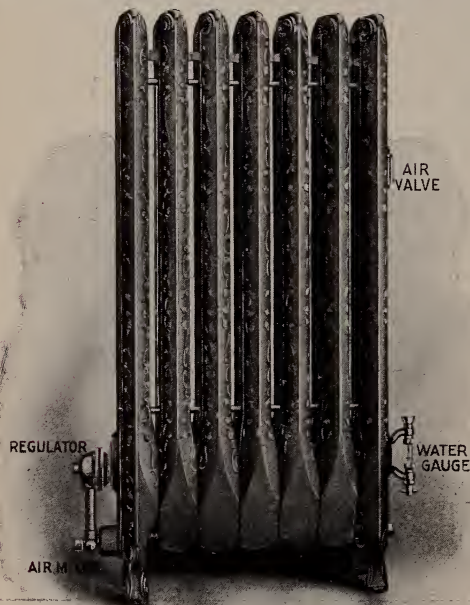
HOW?

BY THE

GASTEAM RADIATOR

MATCHES FOR KINDLING
 GAS FOR FUEL
 STEAM FOR HEAT

SEND FOR BOOKLET "D." DO IT NOW.



JAMES B. CLOW & SONS

342-358 FRANKLIN ST., CHICAGO, ILL

WISCONSIN GAS ASSOCIATION.

Officers.

PRESIDENT,	- - - - -	EDWARD G. PRATT, Milwaukee,
VICE-PRESIDENT,	- - - - -	B. D. VILES, Chippewa Falls,
SECRETARY AND TREASURER,	- - - - -	HENRY H. HYDE, Racine.

ANNUAL MEETINGS.—First Wednesday and Thursday after the 10th day of Feb. of each year.
Next meeting to be held in Milwaukee.

ACTIVE MEMBERS.

Bowen, F. W., Kenosha.	Lynch, Wm. J., Madison, Wis.
Brown, R. B., Milwaukee.	Mainland, Sinclair, Green Bay.
Buck, H. M., Waukesha.	Mainland, Wm., Oshkosh.
Challoner, John, Berlin, Wis.	MacKay, Charles, Watertown.
Cornish, R. C., Milwaukee.	MacMillan, George, LaCrosse.
Corscot, C. John, Madison.	Malone, M. E., Madison.
Cowdery, Edward G., St. Louis.	Mason, J. T., Milwaukee.
Crawford, H. T., Waukegan, Ill.	McAdams, Bryce, Milwaukee.
Curtis, L. F., Fond du Lac, Wis.	McKenzie, Roderick, Stevens Point.
Cutcheon, Max H., Ashland.	Patten, John A., Manitowac, Wis.
Daniell, Edward, Menominee, Mich.	Peck, Everett J., Milwaukee.
Dempsey, M. H., Manitowoc.	Pratt, Edward G., Milwaukee, Wis.
Diehlman, Philip J., Topeka, Kan.	Richards, F. M., Madison.
Doherty, Henry L., Madison.	Rochat, Henry, Ashland.
Dunbar, George L., Fond du Lac.	Rockwell, George, Negaunee, Mich.
Ellison, B. F., West Superior.	Rockwell, Thomas A., Appleton, Wis.
Farrell, J. H., Wausau.	Russell, John K., Sheboygan.
Finch, E. B., Appleton, Wis.	Rutledge, F. J., Milwaukee, Wis.
Gelatt, P. M., La Crosse, Wis.	Sawyer, Edgar P., Oshkosh.
Gilbert, Glenn L., Madison.	Sawyer, Phil H., Oshkosh.
Glass, S. J., New York.	Shaeffer, J. W., Milwaukee, Wis.
Goodnow, George F., Waukegan, Ill.	Schaper, H. C., Milwaukee, Wis.
Haase, Ewald, Milwaukee.	Sherwood, Edward J., Lincoln, Neb.
Harmon, Henry, Milwaukee, Wis.	Smith, Cuthbert E., Madison.
Harrop, H. B., Milwaukee, Wis.	Spiering, R., LaCrosse, Wis.
Hendley, J. L., Beloit.	Stone, W. C., Watertown, Wis.
Hendley, T. C., Beloit.	Teitgen, Emil, Manitowac, Wis.
Humphreys, H. M., Milwaukee, Wis.	Unger, J. S., Milwaukee.
Hyde, Eugene A., Cleveland, O.	Viles, B. D., Chippewa Falls.
Hyde, Henry H., Racine.	Vits, Henry, Manitowac, Wis.
Johnson, William B., Madison.	Wallen, Wm., Oshkosh, Wis.
Kimball, R. N., Kenosha.	Walker, James H., Milwaukee.
Kraft, R. P., Milwaukee, Wis.	Walters, B. S., Blue Island, Ill.
Lawrence, B. A., Milwaukee.	Warnking, George, Oshkosh.
Lea, Henry I., Evanston, Ill.	Wheeler, C. H., La Crosse.
Leuenberger, W. A., Racine, Wis.	Williams, C. H., Madison.
Lindstedt, Julius, Manitowac.	Wortendyke, I. F., Janesville.

ASSOCIATE MEMBERS.

Budel, Fred., Milwaukee, Wis.	Martin, E. B., Chicago, Ill.
Dibley, F. K., Milwaukee, Wis.	Martin, J. H., Chicago, Ill.
Dickey, E. S., Baltimore, Md.	McHenry, J. M., Milwaukee, Wis.
Franke, H. E., Milwaukee, Wis.	Merkle, Otto, Chicago, Ill.
Gilman, Geo. P., Jr., Chicago, Ill.	Meyer, A. D., Milwaukee, Wis.
Guldlin, O. N., Fort Wayne, Ind.	Osins, George, Detroit, Mich.
Harper, H. D., Chicago, Ill.	Randolph, C. N., Chicago, Ill.
Hendriche, W. C., Decatur, Ill.	Rom, Robert, Milwaukee, Wis.
Hennings, Paul W., Chicago, Cal.	Rue, George W., Milwaukee, Wis.
Henry, W. G., Chicago, Ill.	Russell, S. Bent, St. Louis, Mo.
Hyde, Wm. F., Milwaukee, Wis.	Schall, Henry D., Beloit.
Johnson, D. W., Milwaukee, Wis.	Sherriff, F. E., Fort Wayne, Ind.
Kellum, B. J., Welsbach Co., Chicago, Ill.	Shirra, J. C., Cleveland, O.
Knight, J. S., Chicago, Ill.	Stratton, S. S., Chicago, Ill.
Kohn, J. A., Milwaukee, Wis.	Sweep, H. C., Chicago, Ill.
Kruse, O. A., Milwaukee, Wis.	Ummach, Chas. E., Chicago, Ill.
Leary, Thomas F., Decatur, Ill.	Whitney, M. F., Decatur, Ill.
Lloyd, Alfred G., Detroit, Mich.	Wickham, Leigh, St. Louis, Mo.
Lovett, E. C., Chicago, Ill.	Zwisler, A. L., Kalamazoo, Mich.
Lindsay, Chas. R., Jr., Chicago, Ill.	

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA will furnish complete plants for the lighting of the streets of cities, the gas being furnished by the gas company. See advertisement, page XX.

ANALYSIS OF BRITISH GAS ACCOUNTS FOR 1902-3.

These figures were taken from a selected list of companies and municipal plants (corporations) as presented in the *Gas World Analysis of Accounts of Gas Undertakings* which contains statistics for 100 companies embracing 100 columns each. Reductions from British values were made on the basis of one £=\$4.86 and 1 d=2 cents. As one penny is equal more exactly to 2.025 cents, the sum of the items does not equal the total by a fraction of a cent.

OPERATION DATA.

No.	Owner.	Coal (and its equivalent) carbonised; long tons.	Gas made.		Per long ton of coal.						Public lamps; number.	Gas mains; miles.	Price of gas per 1,000; dollars.		Candle-power sup.
			Total; cu. ft.	% of unaccounted for.	Gas made; cubic feet.	Gas sold; cubic feet.	Coke salable; lbs.	Tar coal gas; gals.	Ammonia liquor or sulphate; gals.	Light & heat.			Power.		
1	London G. L. & C. Co.*	2,161,909	21,965,744,000	4.8	10,160	9,531	1,243	9.3	29.5	48,696	2,095	0.73	...	16	
2	“ S. Met. Gas Co	1,138,499	12,105,840,000	4.2	10,633	10,034	1,030	10.0	25.5	22,087	1,054	0.55	...	15	
3	Birmingham Corp..*	640,081	6,462,466,000	5.1	10,096	9,424	1,221	10.8	32.4	19,591	682	0.55 0.67	0.55	16	
4	Glasgow Corp.	707,393	6,431,878,000	11.3	9,092	8,069	885	...	...	25,206	436	0.81 0.67	0.49	20
5	Manchester Corp. ...*	448,909	4,838,636,000	3.3	10,778	10,285	1,053	12.4	27.8	18,629	831	0.73	0.55	18	
6	Newcastle Gas Co. .*	283,439	3,065,379,000	10.0	10,814	9,584	1,109	9.5	19.5 lbs.	11,616	551	0.51 0.65	...	16	
7	London Com. G. Co.*	283,908	2,964,321,000	6.3	10,441	9,619	1,254	10.0	27.3	4,515	281	0.61 0.36	...	15	
8	Sheffield “ “	276,804	2,874,621,000	4.7	10,385	9,777	1,008	11.4	33.5	9,654	511	0.44	0.36	17	
9	Bristol “ “	240,636	2,299,055,000	7.5	9,554	8,721	1,176	10.6	28.4	9,126	340	0.55 0.57	0.51	16	
10	Nottingham Corp. ...	201,367	2,017,394,000	6.8	10,018	9,336	885	12.4	27.4	5,967	336	0.69 0.47	0.57	18	
11	Bradford Corp.	187,462	1,960,482,000	6.1	10,458	9,827	941	12.5	30.2	11,040	394	0.55 0.81	...	18	
12	Edinburg “*	189,295	1,913,649,000	5.7	10,109	9,399	728	14.4	25.2 lbs.	11,539	394	0.73 0.81	...	24	
13	Dublin Gas Co.*	155,291	1,587,249,000	9.5	10,221	9,154	1,254	10.1	18.1	7,050	634	1.07	0.73	16	
14	London, C. P. Dist. .*	131,072	1,335,135,000	6.0	10,186	9,467	1,154	10.6	21.7	3,189	154	0.63 0.71	...	16	
15	West Ham Gas Co. .*	108,969	1,173,561,000	4.8	10,769	10,099	1,042	10.1	18.1 lbs.	3,525	221	0.73	...	16	
16	Croyden Gas Co.*	86,366	916,475,000	6.1	10,611	9,819	1,366	11.6	30.2	2,246	160	0.65	...	16	
17	Tottenham Gas Co. .*	80,096	826,979,000	4.3	10,324	9,763	1,165	7.9	29.9	3,447	135	0.73 25.0	...	16	
18	Dundee Corp.	68,411	665,202,000	7.3	9,723	8,917	862	11.2	25.0 lbs.	5,140	124	0.85 0.63	...	20	
19	Stockport Corp.*	59,100	630,809,000	6.8	10,673	9,841	952	11.9	21.8	2,935	147	0.71	0.42	18	
20	Rochester Gas Co. ...*	53,938	505,804,000	9.7	9,377	8,380	818	9.8	19.4	1,666	98	0.73 0.66	...	16	
21	Wigan Corp.	36,847	418,516,000	6.8	11,358	10,479	1,400	13.2	42.5	2,748	108	0.59	0.43	18	
22	Cambridge Gas Co. .	31,172	321,256,000	11.2	10,306	9,113	1,019	10.5	22.0	1,397	48	0.73 0.28	0.65	16	
23	Widnes Corp.	26,933	267,668,000	4.4	9,938	9,414	1,243	10.1	18.1 lbs.	916	40	0.32	0.24	19	
24	N. Middlesex G. Co.*	11,489	129,588,000	10.6	10,936	9,666	1,221	7.5	17.4	735	38	0.93 0.61	...	16	
25	Red Hill Gas Co.*	11,103	117,560,000	4.9	10,588	9,873	986	10.7	18.7 lbs.	385	32	0.97 0.55	...	16	
26	Longwood Gas Co. ...	8,980	89,060,000	9.1	9,917	8,869	1,120	12.3	28.1	403	30	0.73	0.53	17	
27	Morecambe Corp.	6,914	77,151,000	11.6	11,158	9,754	1,030	12.1	25.4	470	30	0.91 18.6	0.81	18	
28	Newmarket Gas Co..	5,601	54,823,000	11.0	9,788	8,578	1,142	11.2	18.8 lbs.	255	20	0.89 12.8	0.81	16	
29	Waltham A. G. Co. .*	5,060	53,906,000	5.3	10,653	9,974	941	6.9	18.8 lbs.	370	28	0.85	...	15	
30	Renfrew Corp.	3,520	33,196,000	13.7	9,430	8,140	795	18.9	37.8	210	10	0.81	0.69	23	

* Make carbureted water gas also.

THE **Welsbach** STREET LIGHTING COMPANY OF AMERICA can furnish lanterns and fixtures for every possible contingency that may occur. See advertisement, page xx.

No.	Consumers Total No.	Capital.			Revenue, cents per 1,000 cubic feet of gas sold.							
		Total paid up.	Per 1,000 cubic feet sold.	Re- serve funds. Per cent of capital.	From gas.	Meters	Stoves.	Coke.	Tar.	Am- monia.	Miscel- lan'ous	Total.
1	390,361	\$133,911,696	\$3.08	1.1	71.60	....	1.34	12.56	2.84	3.50	0.02	91.88
2	257,054	42,397,483	1.90	3.3	53.88	2.14	1.80	14.56	2.66	4.14	0.08	79.22
3	90,606	10,766,042	1.78	4.5	56.92	....	....	7.14	2.22	4.14	0.72	71.14
4	216,122	8,736,929	1.62	....	55.96	....	0.56	5.44	2.60	4.11	....	68.67
5	141,954	5,841,006	2.47	....	67.30	....	0.72	7.16	3.10	2.04	0.04	80.36
6	56,594	11,832,253	3.02	1.1	44.04	1.98	0.84	10.28	2.98	3.64	0.36	64.12
7	46,534	11,526,909	2.12	3.2	61.20	2.72	1.00	11.70	3.86	3.56	0.08	84.12
8	69,608	4,559,594	1.68	13.2	44.48	2.32	0.28	11.84	3.88	5.96	0.66	69.42
9	36,845	7,835,753	2.71	7.6	54.34	1.21	1.04	11.62	3.26	5.34	0.04	76.85
10	54,843	5,323,318	2.79	3.8	66.58	1.64	0.94	8.84	4.68	3.98	1.22	87.88
11	73,382	4,378,238	2.37	7.7	49.22	0.59	0.18	7.56	3.92	5.14	....	66.61
12	84,060	5,989,425	3.36	....	73.72	....	....	3.82	5.56	4.44	0.06	87.60
13	31,892	5,171,143	3.89	8.0	83.60	2.60	....	11.52	2.58	2.14	0.02	102.46
14	32,052	3,831,697	3.08	5.9	62.16	1.78	1.98	13.58	2.08	2.80	0.02	84.40
15	20,997	4,676,933	3.00	3.2	70.32	1.86	1.44	12.22	3.00	3.40	0.02	92.28
16	20,195	2,143,032	2.33	10.1	65.50	2.12	1.64	13.62	2.72	2.82	0.24	88.66
17	24,535	2,698,325	3.38	5.4	70.30	3.20	3.22	7.80	1.92	1.62	....	88.06
18	41,961	2,072,435	4.72	....	81.84	....	0.26	4.76	5.00	5.00	0.24	97.10
19	24,619	1,643,156	1.82	....	63.94	....	0.74	5.54	3.44	2.18	0.58	76.42
20	8,407	314,325	0.59	13.3	64.28	1.02	0.82	12.32	2.30	2.44	0.12	83.30
21	13,431	1,301,863	4.09	....	60.32	....	1.04	13.60	3.64	5.20	1.20	85.00
22	6,635	859,515	3.02	8.6	77.34	2.62	0.80	17.96	3.48	2.58	0.90	105.68
23	5,822	354,449	1.96	26.9	37.00	1.44	....	11.70	2.84	5.00	0.12	58.10
24	3,050	475,075	4.00	9.4	66.58	1.68	0.94	8.84	4.68	3.98	1.22	87.92
25	2,657	404,984	4.27	3.0	82.66	2.04	1.26	15.48	1.78	1.84	0.02	105.08
26	4,753	296,805	4.62	....	65.94	1.56	1.52	13.20	3.68	3.50	1.40	90.80
27	5,647	794,367	12.56	....	91.76	3.94	1.68	9.94	3.80	5.10	0.56	116.78
28	1,375	316,269	6.56	7.7	88.44	4.52	1.26	11.60	3.20	3.28	2.38	114.68
29	1,529	303,643	6.18	1.4	82.76	3.86	3.70	12.76	2.02	1.36	0.04	106.50
30	2,400	.....	3.32	....	79.86	...	....	8.26	3.60	3.74	....	95.46

MISSOURI FIRE BRICK CO.

ST. LOUIS, MO.

MANUFACTURERS OF

Gas Retorts, Fire Brick

CUPOLA LININGS, FIRE CLAY, ETC.

WE construct Full and Half Depth Benches, arranged for Front or Rear Clinkering, and guaranteed to successfully burn either coal or coke. Also Free Firing Benches.

EXCLUSIVE AGENTS FOR THE

Mitchell Regenerative Benches

YOUR CORRESPONDENCE IS SOLICITED

GAS COAL

THE KANAWHA COAL & COKE CO.

Fourth and Elm Sts.

CINCINNATI, O.

EXPENDITURES. Cents per 1,000 cubic feet sold.

No.	Owner.	Manufacture.					Distribution.			
		Coal and equivalent.	Purification.	Salaries.	Wages.	Maintenance.	Salaries.	Maintenance.		
								Pipes.	Meters.	Stoves.
1	London G. L. & Coke Co.	31.06	2.24	0.74	6.60	8.22	1.64	1.92	1.28	1.30
2	" S. Met. Gas Co.	29.08	1.70	1.00	4.90	9.16	1.18	2.54	1.70	1.44
3	Birmingham Corp.	29.14	1.94	0.60	5.30	10.60	1.24	2.08	0.88	....
4	Glasgow Corp.	33.52	2.66	0.40	7.50	4.56	1.06	2.98	1.44	0.60
5	Manchester Corp.	29.60	0.80	0.52	4.64	7.12	2.34	2.00	2.40	0.70
6	Newcastle Gas Co.	24.14	1.82	0.80	7.22	4.94	1.18	1.72	0.60	0.52
7	London Com. Gas Co.	30.32	2.86	0.70	6.40	7.94	0.84	0.98	1.60	1.04
8	Sheffield Gas Co.	21.38	0.96	0.56	5.32	12.12	1.00	2.34	1.12	0.44
9	Bristol Gas Co.	33.16	0.94	0.64	8.92	4.44	0.56	0.94	0.90	1.08
10	Nottingham Corp.	30.84	1.76	0.56	6.08	10.28	1.96	3.06	1.84	2.18
11	Bradford Corp.	29.10	0.26	0.32	6.90	6.04	0.20	1.80	1.32	0.04
12	Edinburgh Corp.	31.34	2.94	0.64	11.14	3.36	3.22	2.04	2.02	0.72
13	Dublin Gas Co.	34.46	0.48	1.20	5.60	5.72	1.64	2.42	6.32	0.96
14	London, Cryst. Pal. Dist.	35.06	1.44	0.94	4.80	7.98	1.20	2.60	1.18	1.92
15	West Ham Gas Co.	35.12	2.76	0.96	8.90	9.02	0.54	3.16	1.06	2.04
16	Croyden Gas Co.	33.12	1.48	1.28	5.54	9.22	1.12	3.46	1.68	3.04
17	Tottenham Gas Co.	30.88	1.66	0.98	4.74	9.46	2.20	8.76	1.56	....
18	Dundee Corp.	33.22	2.34	0.58	7.20	10.94	1.48	1.88	....	....
19	Stockport Corp.	30.20	1.10	0.60	7.34	5.98	1.44	0.94	....	0.40
20	Rochester Gas Co.	36.02	1.96	0.76	9.52	9.56	0.56	7.38	1.20	....
21	Wigan Corp.	25.52	0.62	0.56	6.14	3.40	0.64	1.08	0.96	0.44
22	Cambridge Gas Co.	49.02	1.58	0.96	5.88	13.76	0.22	2.30	2.54	....
23	Widnes Corp.	21.72	0.66	....	6.72	5.88	....	0.74	3.20	....
24	N. Middlesex Gas Co.	33.72	2.30	1.98	7.34	6.02	1.34	5.04	2.02	4.82
25	Red Hill Gas Co.	37.60	0.84	2.58	5.36	7.04	....	1.68	4.24	....
26	Longwood Gas Co.	32.20	0.32	1.16	6.64	12.26	0.76	1.64	2.08	2.56
27	Morerambe Corp.	31.80	0.72	1.06	6.48	3.96	3.08	0.84	0.18	0.54
28	Newmarket Gas Co.	55.62	1.58	1.74	7.04	7.04	1.30	1.64	0.98	....
29	Waltham Abbey Gas Co.	35.82	0.14	3.52	5.44	4.50	....	2.46	2.50	....
30	Renfrew Corp.	40.88	1.16	2.76	9.38	3.22	0.78	1.06	....	....



The "REEVES" fulfils every requirement of a **prepay attachment**. Its long warning prevents accidents. Construction and workmanship perfect. Delivers **exact** amount required for coin. Easy to attach to either old or new meters.

REEVES MFG. CO., New Haven, Conn.

(Manufacturers of Clocks, Spring Motors, Indexes, etc.)

No.	Management.				Bad debts per 1,000 cu. ft. sold.	Rates and taxes per 1,000 cu. ft. sold.	Miscellaneous per 1,000 cu. ft. sold.	Fixed charges per 1,000 cu. ft.			Total per 1,000 cu. ft. sold.	Surplus per 1,000 cu. ft. sold.
	Directors and auditors.	Salaries.	Collections.	Stationery printing, etc.				Interest and preferred stock; dividend.	Sinking fund.	Dividend on capital stock.		
1	0.14	0.54	0.98	0.48	0.22	6.44	1.32	9.02	....	15.62	90.36	1.12
2	0.20	0.24	0.90	0.74	0.16	3.12	2.32	2.42	....	13.62	77.02	1.84
3	....	0.22	0.14	0.42	0.06	2.92	0.38	6.90	2.80	....	66.22	4.56
4	....	0.18	0.46	0.28	....	0.24	1.58	7.22	1.44	....	66.72	8.26
5	....	0.48	0.94	0.40	0.10	4.68	0.52	4.54	4.72	....	67.10	13.86
6	0.38	0.66	0.36	0.58	0.14	1.96	0.28	3.38	....	12.06	63.04	1.08
7	0.46	0.44	0.82	0.58	0.32	3.24	1.58	2.60	....	16.64	79.96	3.76
8	0.28	0.74	0.60	0.36	0.18	4.00	0.22	....	....	15.40	67.62	3.10
9	0.50	0.98	0.44	0.50	0.06	2.18	0.50	2.62	....	12.40	72.36	4.08
10	0.02	0.72	0.70	0.44	0.16	3.96	....	11.96	1.14	....	78.26	9.66
11	....	0.88	0.12	0.44	0.32	3.52	....	9.00	4.22	....	65.08	1.34
12	0.04	0.50	0.96	1.14	0.20	3.28	0.82	16.64	5.06	....	86.66	0.54
13	0.74	0.84	0.82	1.08	0.36	2.28	1.98	4.02	....	24.96	96.48	5.58
14	0.68	0.64	0.94	0.92	0.14	2.78	2.66	3.38	....	11.86	81.72	2.68
15	0.76	0.62	0.98	0.62	0.30	4.40	1.30	2.80	....	15.66	91.10	0.66
16	0.86	0.92	1.22	0.90	0.08	3.28	0.70	1.24	....	19.52	89.26	0.40
17	0.80	0.52	0.78	1.08	0.32	3.48	0.14	2.72	....	12.76	83.44	4.62
18	....	1.94	....	0.68	0.18	5.76	4.32	9.74	8.36	....	89.22	10.86
19	....	1.30	....	0.56	0.04	3.44	0.02	6.78	7.41	....	68.13	8.28
20	0.62	1.16	0.58	1.06	0.20	2.54	0.08	....	....	6.42	79.48	4.12
21	0.04	0.96	0.18	0.56	0.42	4.20	1.10	10.72	7.28	....	65.12	19.58
22	0.64	1.14	0.32	0.72	0.26	3.02	0.40	2.28	....	16.64	102.60	3.10
23	....	1.58	2.24	....	....	2.20	....	5.64	....	....	50.88	7.10
24	2.94	1.48	1.64	1.76	0.56	6.08	1.22	4.78	....	20.64	106.58	5.16
25	2.32	3.64	....	1.54	0.24	2.84	0.22	2.70	....	29.60	103.04	1.74
26	1.00	1.86	0.60	0.86	....	5.38	2.06	6.64	....	14.48	93.10	-2.30
27	....	....	....	0.72	0.98	4.76	0.56	46.60	18.94	....	146.12	5.34
28	1.64	1.74	1.04	1.70	0.38	3.70	....	1.86	....	38.96	128.86	-4.18
29	2.40	1.86	0.80	1.98	0.62	7.12	....	5.54	....	30.42	105.72	0.48
30	....	1.40	....	0.56	....	2.68	1.50	10.34	9.42	....	85.74	9.42

MILL CREEK COAL CO.

Miners and Shippers of

Anthracite Coal

Collieries : BUCK MOUNTAIN and VULCAN

W. KISHBAUGH, General Sales Agent, **MAUCH CHUNK, PA.**

BRITISH GAS WORKS STATISTICS.

The British Board of Trade Returns relating to Gas Undertakings of the United Kingdom is a valuable statistical official report issued every year, usually in January. The figures are for the calendar year ending December 31, except the fiscal years as noted which end March 25. In order to show the comparative growth and changes during the past two decades, the following figures were taken from the report. In converting the British money into our units it was assumed that one £ equals \$4.86.

BRITISH MUNICIPAL GAS PLANTS.

Items.	1882.	1892-3.	1902-3.
Number undertakings reported.....	148	185	256
Amount of loan and capitalised value of annuities authorised.....	\$101,628,208	\$125,669,778	\$204,024,161
Amount borrowed including annuities (not deducting amount repaid).....	84,205,250	110,489,942	173,686,792
Loan repaid, annuities redeemed and amount placed to sinking fund.....	11,095,404	23,168,854	42,836,375
Receipts by gas undertakings during year.	14,920,304	29,079,125	46,437,222
Expenditure for the year (exclusive of next item).....	13,410,217	22,852,290	35,067,340
Interest paid on loan and payments in redemption of loan.....	4,111,249	4,833,353	7,703,027
Amount of net profit after payment of items in preceding.....	2,479,903	1,482,494	3,857,703
Number long tons, coal carbonised.....	2,352,062	3,977,291	5,589,215
Gas made, thousands cubic feet.....	23,223,054	39,303,250	60,902,739
“ consumed “ “ “.....	21,129,034	36,067,964	55,776,260
Water-gas supplied thousands cubic feet.....	.....	.....	4,459,916
Length of gas mains, miles.....	5,000	8,196	11,632
Number of consumers.....	916,962	1,203,574	1,970,738
Number public lamps lighted.....	137,011	201,484	294,828

BRITISH GAS COMPANIES.

Items.	1882.	1892.	1902.
Number of companies reporting.....	352	429	454
Authorised share capital..... total	\$185,576,150	\$211,299,207	\$361,192,104
Paid up share and premium capital, total	138,943,260	171,397,124	312,493,684
Authorised loan capital..... total	42,390,417	51,296,658	83,955,003
Issued loan capital..... total	21,120,525	34,745,924	62,353,436
Authorised capital subject to auction clauses.....	41,787,689	59,747,285	122,725,425
Capital sold under auction clauses.....	10,040,300	23,112,201	62,707,919
Premium realised by auction sales.....	4,653,746	10,422,848	25,461,044
Receipts.....	.....	61,250,454	83,616,747
Expenditures.....	.....	46,396,048	63,992,524
Coal carbonised..... long tons	4,928,695	7,119,189	8,520,004
Gas made..... thousands cubic feet	49,360,289	72,178,028	99,676,048
Gas sold..... “ “ “	45,484,910	66,766,588	91,956,324
Water-gas supplied..... “ “ “	.....	.....	12,407,734
Length of gas mains..... miles	11,000	14,478	17,512
Number of consumers.....	1,055,009	1,213,322	2,197,987
Number public lamps lighted.....	224,300	288,021	333,308

TOTALS FOR PRIVATE AND MUNICIPAL PLANTS FOR 1902.

Total number of undertakings reporting.....	710
Capital authorised.....	\$649,171,268
Capital paid up and borrowed.....	\$548,533,912
Receipts.....	\$130,053,969
Expenditures.....	\$99,059,863
Coal carbonised, long tons.....	14,109,219
Gas made, total, cubic feet.....	160,578,787,290
Gas sold “ “ “.....	147,732,584,030
Water-gas supplied “ “ “.....	16,867,649,442
Acetylene “ “ “.....	84,287

THE **Welsbach** STREET LIGHT possesses great economy over any other method of street illumination. See advertisement, page xx.

BOOKS FOR GAS MEN.

CATALOGUE OF BOOKS THAT HAVE BEEN FOUND OF VALUE TO ENGINEERS.

Address Remittances to

PROGRESSIVE AGE PUBLISHING COMPANY,

280 Broadway, New York.

GAS-WORKS.

SELF INSTRUCTION FOR STUDENTS IN GAS MANUFACTURE. Reprint from serial in *Gas World*, catechism style, elementary. By "Mentor." Cloth, 12mo., 122 pp., 26 ill. London, 1903. gw. \$1.75

GAS ENGINEERS ANNUAL AND DIRECTORY OF GAS UNDERTAKINGS. Annual, Twenty-fourth edition. Technical articles and gas company statistics and list of gas plants in the world. Cloth, 4to, 126 pp., ill. Birmingham, 1903 \$1.50

EINRICHTUNG UND BETRIEB EINES GASWERKS. (Installation and operation of a gas-works). In German. A handbook for superintendents and builders. By A. Schafer. Cloth, 373 pp., 185 ill. Berlin, 1903. ro. \$3.50

"GAS WORLD" ANALYSIS OF GAS UNDERTAKINGS. Two cloth backed sheets giving 100 columns of figures for 100 British gas plants. Cloth, 4to cover. London, 1904. ja. \$3.00

HANDBOOK FOR GAS ENGINEERS AND MANAGERS. Sixth edition. Covers well the field of English practice. By Thomas Newbigging. Morocco (6 x 8), 535 pp., 239 ill. London, 1898. k. Edition exhausted; new edition in preparation.

CONSTRUCTION OF GAS-WORKS. Eighth edition. Manufacture and distribution of coal-gas. By S. Hughes. Rewritten by Wm. Richards. Cloth, 12mo, ill. London, 1892. v. \$2.20

LES GAZOGENES. (Gas producers and generators.) In French. By Jules Deschamps. Cloth, 8vo, 432 pp., 240 ill. Paris, 1902. v c h d. \$4.00

TEXT BOOK ON GAS MANUFACTURE. For students. By John Hornby. Cloth, 12mo, 261 pp., 63 ill., 7 pl. London, 1896. v. \$1.50

THE CHEMISTRY OF GAS MANUFACTURE. Handbook. Analysing of material and products. Second edition. By W. J. A. Butterfield. Cloth, 8vo, 448 pp., 66 ill. London, 1898. g. Edition exhausted; new edition in preparation.

GAS LIGHTING. Vol. III of Chemical Technology. (Edited by Groves and Thorp.) By Charles Hunt. Cloth, large 8vo, 312 + 40 pp., 291 ill. Philadelphia, 1900. p b. Net \$3.50

GAS HOLDER AND TANK CONSTRUCTION. English practice. By F. S. Cripps. Cloth, 8vo, 33 pp., 7 pl. London, 1898. k. \$1.50

COAL-TAR AND AMMONIA. Third edition. Uses, distillation, analysis and products. By Geo. Lunge. Cloth (6 x 9), 929 pp., 285 ill. New York, 1900. v. \$15.00

AMMONIA AND AMMONIUM COMPOUNDS. Second edition. By R. Arnold. Translated from the German by Harold G. Colman. Making of products from gas liquor and spent oxide. Cloth, 130 pp., 10 ill. London, 1890. v. \$2.00

AMMONIA AND ITS COMPOUNDS. By Camille Vincent. Translated from French by M. J. Salter. Extraction and products. Cloth, 114 pp., 32 ill. London, 1901. s g. \$2.00

BROWN'S DIRECTORY OF AMERICAN GAS COMPANIES. Annual. Gas company statistics. Compiled by E. C. Brown. Cloth, 8vo, about 200 pp. New York. p a. Each, \$5.00

GAS-WORKS DIRECTORY AND STATISTICS. Annual. For Great Britain and Colonies. 1902-1903 issue. Cloth, 8vo, 398 + lxi pp. London. h w v. \$4.00

THE "GAS WORLD" YEAR BOOK. Technical data, gas-works directory and works diary. Annual. For Great Britain. Edited by John Douglas. Cloth, quarto, about 200 pp. text and 100 pp. diary. London. ja. \$2.75
Directory alone, 1.00

MUNICIPAL YEAR BOOK, 1902. Annual. First issue. Statistics of public service industries in cities in the United States, including gas-works. Edited by M. N. Baker of Engineering News. Cloth, 8vo., 310 pp. New York, 1902. e n. \$3.00

FIELD'S ANALYSIS. Itemised Accounts of principal British gas companies. Annual. By John W. Field. Flexible cloth, oblong (8.3 x 10.8), 32 pp. London. v. \$5.00

FINANCES OF GAS AND ELECTRICITY MANUFACTURING ENTERPRISES. By Wm. D. Marks. Second edition. Cloth, 12mo, 120 pp., 2 pl. Philadelphia, 1903. w d m. \$1.00

GAS COMPANIES' BOOKKEEPING. Forms and examples; English practice. Cloth, large 8vo, 295 pp. London, 1900. k. \$4.10

BOOKKEEPING FOR GAS-WORKS. By Charles Sandell. Cloth, 8vo, 64 pp., numerous forms. London, 1901. ja. \$2.00

PROCEEDINGS AMERICAN GAS LIGHT ASSOCIATION. Annual report of meeting held October 15, 1902. Vol. XIX. Cloth, 8vo, 317 + ccxlv pp., ill. New York, 1903. Price to members, \$2.00. All others, \$7.00

Welsbach System of Street Lighting.

MODERN METHODS OF SAVING LABOR IN GAS-
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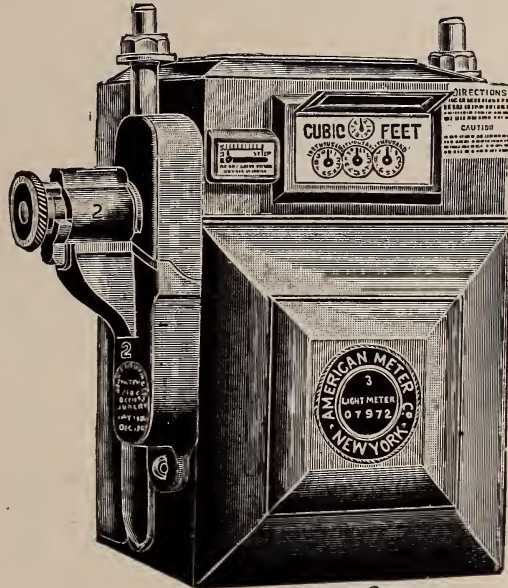
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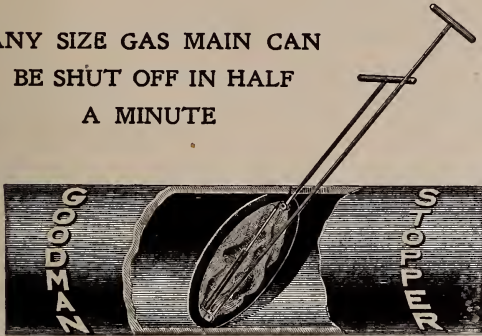
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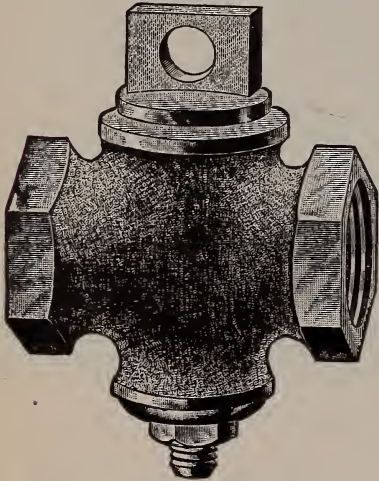
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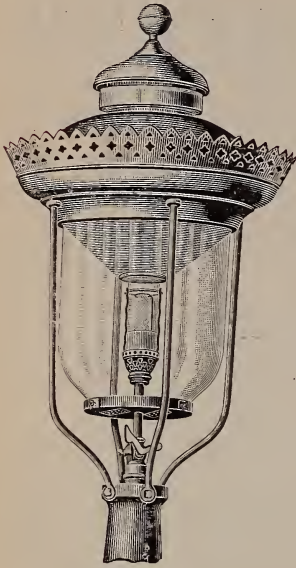
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ON ANOTHER PAGE will be found a list of standard works, for **Gas Engineers**, which will be forwarded upon receipt of price. Most other technical books can also be supplied. Read the book reviews in **PROGRESSIVE AGE** for information regarding books just issued. **A Discount of 10 per cent.** will be allowed subscribers to **PROGRESSIVE AGE**.

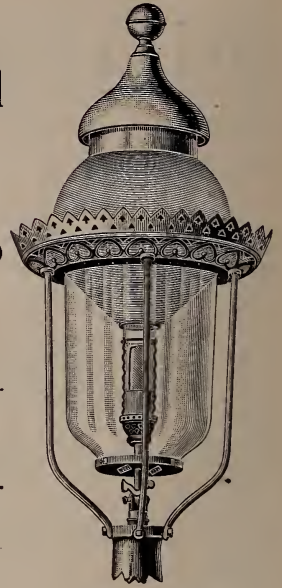
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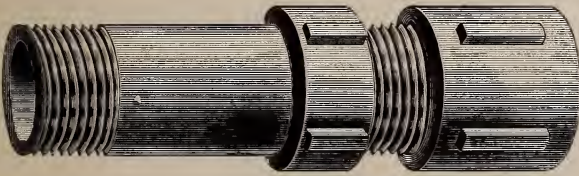
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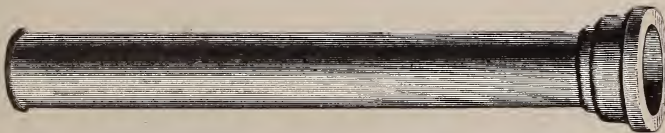
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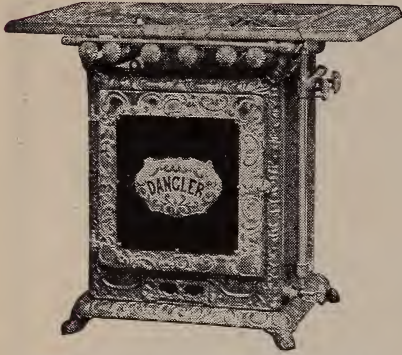
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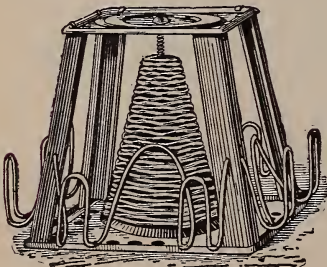
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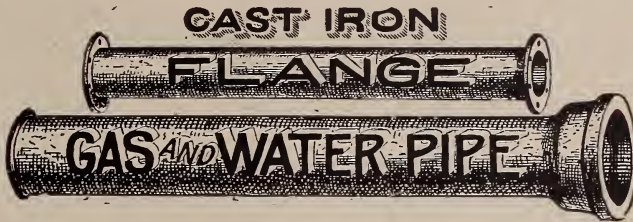
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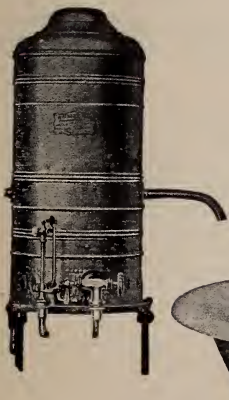
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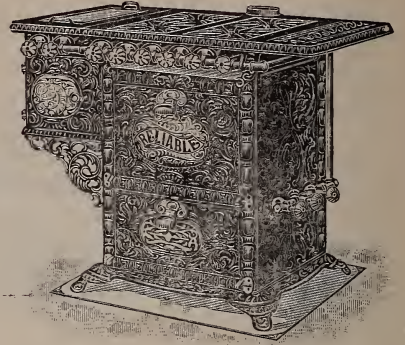
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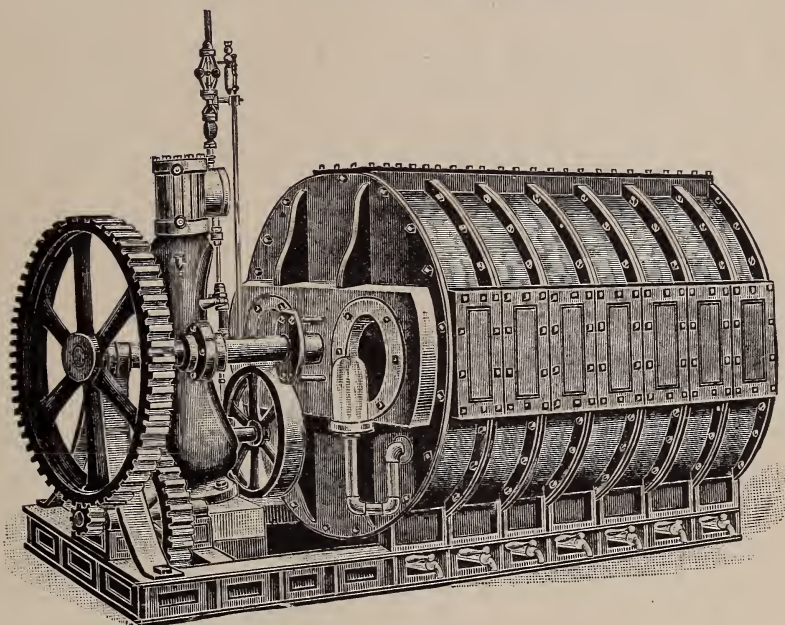
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